*FrontAnD Technology*

# *Professional Maker in LED Lighting*

Founded in year 2000, FrontAnD Technology has been engaged in LED lighting and IC design for many years. While been deeply rooted in solid state technology and circuitry, we also dedicate ourselves to strengthen our technical advantages and cultivate new technologies; including power electronics, driving and control design, thermal management, optical and mechanical design - tens of patents are accumulated after years of teams' effort.

Through years, FrontAnD makes her product lines with more choices, better quality, better performance and wider pricing ranges to meet market demand. We are glad to offer various products, such as commercial, indoor, outdoor, under cabinet, miniature bulbs and fixtures. We are confident that we could offer the most satisfactory products and services to our customers.

"Light up your life with care and creation" is our commitment, "Keep goals and work on it" is our attitude. Your feedback and support makes us better. FrontAnD will keep our missions and serve our customers as we've committed.

Much appreciated again.

Sincerely,
Team of FrontAnD
September, 2013

# Product Gallery

## A. LED Luminaires

- Commercial Light Engine
- Undercabinet
- Cove/Contour Lighting

new F50 **7**

**13** F111A9

new FTL-F50 **16**

Light Engine | Track Light

- General Lighting
- Industry Lighting
- Flood Lighting (Outdoor)

new **43** Panel Light (60x60)

**46** Panel Light (120x30)

**53** Edge-lit DownLight

General Lighting

## B. LED Retrofits

- MR Spotlights
- AR Spotlights

**76** MR16 (7W/7.5W)

**79** MR16-dimmable (12W)

new **82** GU10 (7W)

LuxMR series | LuxAR series

- Tube
- Bulb
- Festoon

**97**

new Tube (T8/T5)

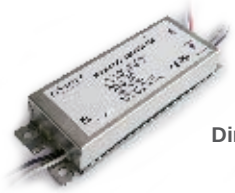
**104** A60 (10W)

**108** Festoon

Tube series | LuxBB | LuxMini series

## C. Power

- Dimmable Power



**114** Dimmable Power

new
19
FTL-F111

23
LuxBar 31/2A

Accessory
26
Motion Sensor / Dimmer

IP66
33
LuxBar 32

36
Tube-24V

Track Light | Undercabinet | Cove/Contour Lighting

56
new
DownLight (3”~6”)

IP65
65
new
High Bay Light

IP65
68
LBCX3-AC

71
IP65
LBCX3-DC

General Lighting | Industry Lighting | Flood Lighting

85
AR70 (6.5W)

87
AR111 (15W)

89
AR111 (13W)

new
91
F111 (19W)

new
94
F111 (8W)

LuxAR series

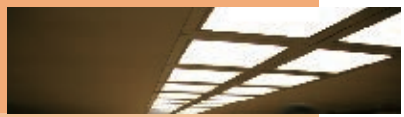

LIGHT BY : CREE LED inside | Epi-star | LIGHT BY LUXEON | GENUINE NICHIA LED | SEMILEDS

# INDEX

## A. LED Luminaires

LuxLE Series High Power LED light engine for commercial application ····· 7

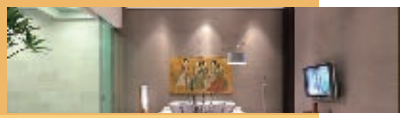
LuxBar Series LED Linear Light with Ultra Thin Profile ····· 23
LuxTube (24V DC) Extendable LED Tube Light ····· 36


LuxPL Series LED Panel Light of Recessed, Mounted & Suspended Type ····· 43
LuxDL Series LED 6" panel type Recessed Down Light ····· 53

LuxBY Series LED High Bay Light for industry light ····· 65
LuxBeacon Sereies Outdoor High Power LED Flood / Spot Lamp ····· 68


## B. LED Retrofits

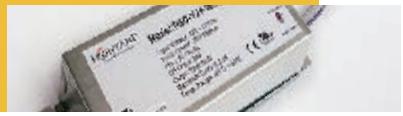



LuxMR Series LED lamp for replacing 35~50W halogen MR lamp ····· 76
LuxAR Series LED lamp for replacing 35~75W halogen AR lamp ····· 85

LuxTube LED Tube Light ····· 97
LuxBB Series LED lamp for replacing 60W incandescent Bulb ····· 104

LuxMini Series LED lamp for replacing traditional mini lamp ····· 108


## C. Power




Dimmable Power 120~277V AC Input, 12V/24V, 60W/100W ····· 114

# A. LED Luminaires

(A-1) Commercial Lighting
(A-2) Undercabinet
(A-3) Cove/Contour Lighting
(A-4) General Lighting
(A-5) Industry Lighting
(A-6) Flood Lighting (Outdoor)

# Commercial Light Engine A-I

High Power LED light engine for commercial / professional application

## *Content*


LuxLE Series - Light Engine

- F50X1 - 13W, ψ50mm
- F50M1 - 15W, ψ50mm
- F111A9 - 28W, ψ111mm

FTL Series - Track Light

- FTL-F50M1
- FTL-F111A9

# LuxLE-F50

Indoor CE RoHS

LED ψ50 Light Engine for Commercial Lighting

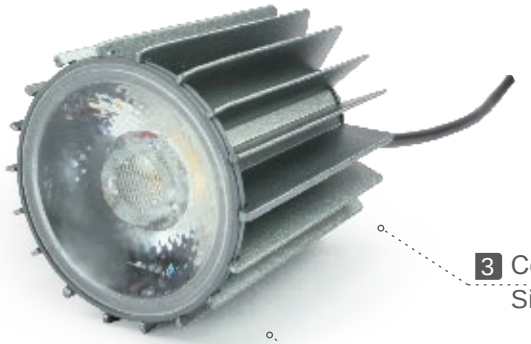
new **F50XI-60WI3** **CRI >90**

CREE CXA inside

860 lm, 13W

## Super High lumen for Commercial Lighting
**- Replace 75W halogen application**

**Dimmable Solution**
Input: 230VAC, 50/60 Hz



1 ψ50 Light engine
Fit to MR16 fixture

2 Halogen-like accent beam
- Beam Angle: 27° / 42° / 50°

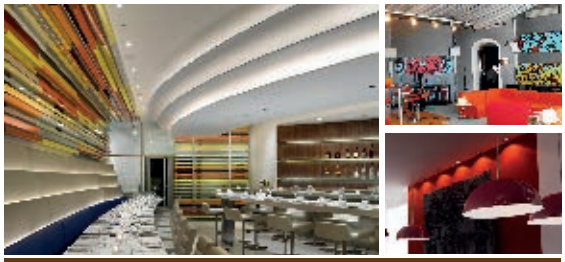
3 Color consistency
Single bins at 2700K/3000K

4 Hybrid Lens - Reflector like collimator

### ◦ Features

- Replacing 75W halogen application
- High efficiency
- Offer great flexibility when designing LED luminaires
- Color consistency: Single CCT Bin at 2700K/3000K
- Halogen-like accent beam: 27° / 42° / 50°
- No UV or IR irradiation
- CE, RoHS

### ◦ Applications



- Commercial lighting, Area lighting, professional application...etc

## ◦ Specifications

### A Light Engine - F50X1

| Model | Diameter/Length | LED | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage | Color |
|---|---|---|---|---|---|---|---|---|---|---|
| F50X1-60W13-927-S27-80<br>F50X1-60W13-927-S27-90 | ψ50*60 mm | CREE CXA1512 * 1 | 13W | 2700K | 960 / 830 lm | 27° | 3000 | 90+ | 33~42 V DC | 80-Gray<br>90-White |
| F50X1-60W13-927-S42-80<br>F50X1-60W13-927-S42-90 | | | | | | 42° | 1350 | | | 80-Gray<br>90-White |
| F50X1-60W13-927-S50-80<br>F50X1-60W13-927-S50-90 | | | | | | 50° | 900 | | | 80-Gray<br>90-White |
| F50X1-60W13-930-S27-80<br>F50X1-60W13-930-S27-90 | ψ50*60 mm | CREE CXA1512 * 1 | 13W | 3000K | 1030 / 890 lm | 27° | 3200 | 90+ | 33~42 V DC | 80-Gray<br>90-White |
| F50X1-60W13-930-S42-80<br>F50X1-60W13-930-S42-90 | | | | | | 42° | 1450 | | | 80-Gray<br>90-White |
| F50X1-60W13-930-S50-80<br>F50X1-60W13-930-S50-90 | | | | | | 50° | 950 | | | 80-Gray<br>90-White |
| F50X1-60W13-827-S27-80<br>F50X1-60W13-827-S27-90 | ψ50*60 mm | CREE CXA1512 * 1 | 13W | 2700K | 1180 / 1020 lm | 27° | 3700 | 80+ | 33~42 V DC | 80-Gray<br>90-White |
| F50X1-60W13-827-S42-80<br>F50X1-60W13-827-S42-90 | | | | | | 42° | 1650 | | | 80-Gray<br>90-White |
| F50X1-60W13-827-S50-80<br>F50X1-60W13-827-S50-90 | | | | | | 50° | 1100 | | | 80-Gray<br>90-White |
| F50X1-60W13-830-S27-80<br>F50X1-60W13-830-S27-90 | ψ50*60 mm | CREE CXA1512 * 1 | 13W | 3000K | 1280 / 1100 lm | 27° | 4000 | 80+ | 33~42 V DC | 80-Gray<br>90-White |
| F50X1-60W13-830-S42-80<br>F50X1-60W13-830-S42-90 | | | | | | 42° | 1800 | | | 80-Gray<br>90-White |
| F50X1-60W13-830-S50-80<br>F50X1-60W13-830-S50-90 | | | | | | 50° | 1200 | | | 80-Gray<br>90-White |

*** Lumens:** Cold at Tj=25°C , Hot at Tj=105°C ; variation is +/- 15% **; **CBCP:** Center Beam Candle power (cd) , variation is +/- 15%
**Operating Temp.:**-20~45°C (non-condensation environment) ;**Life time:** 40,000 hrs ; **Warranty:** 2 years, limited
★NOTE: Not for use in totally enclosed fixture or in fixture without air flow.

### B Power

| Model | Watts | Input Volt | Current | PF | Efficiency |
|---|---|---|---|---|---|
| PSD-C035W15A0-V230 | 15W | Input: 220~240V AC<br>Output: 32~42V DC | 350mA | PF>0.9 | Typ. 80% |

## ◦ Illumination Chart

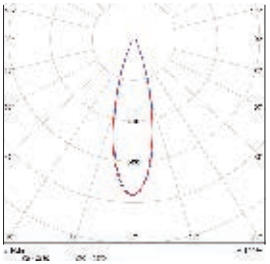
@50% CBCP — Beam Angle
@10% CBCP — Field Angle

| | | F50X1 | 27° (27° / 49°, 10%, 50% 100%CBCP) | 42° (42° / 70°, 10%, 50% 100%CBCP) | 50° (50° / 100°, 10%, 50% 100%CBCP) |
|---|---|---|---|---|---|
| CRI 80 (2700K) | 1m | | 3700 lux | 1650 lux | 1100 lux |
| | 2m | | 910 lux | 410 lux | 290 lux |
| CRI 80 (3000K) | 1m | | 4000 lux | 1800 lux | 1200 lux |
| | 2m | | 980 lux | 440 lux | 310 lux |
| CRI 90 (2700K) | 1m | | 3000 lux | 1350 lux | 900 lux |
| | 2m | | 755 lux | 330 lux | 230 lux |
| CRI 90 (3000K) | 1m | | 3200 lux | 1450 lux | 950 lux |
| | 2m | | 810 lux | 355 lux | 250 lux |

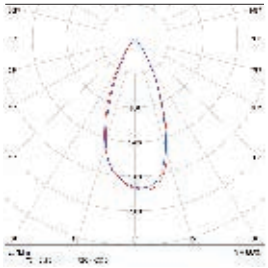
* Typical Lux Variation is +/- 15%

## ◦ Photometric

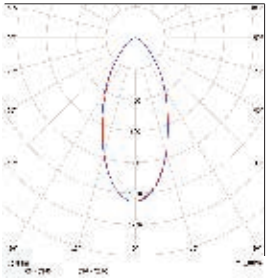
27 °



42 °

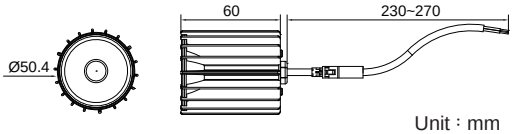


50 °



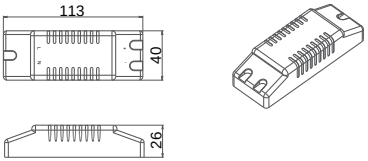
## ◦ Dimensions

### A Light Engine - F50X1




Unit：mm
Weight：100g

### B Dimmable Power




Unit：mm
Weight：100g

## ◦ Ordering Code Guideline

EX: F50X1-60W13-927-S27-80
F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Model Type** | **Length-Watts** | **CRI,CCT** | **Beam Angle** | **Color** |
| F50X1: ψ50 Light Engine (X1 type) | 60W13: Length 60mm, 13 Watts | 927: CRI >90, 2700K<br>930: CRI >90, 3000K<br>827: CRI >80, 2700K<br>830: CRI >80, 3000K | S27: 27 degree<br>S42: 42 degree<br>S50: 50 degree | 80: Gray<br>90: White |

# LuxLE-F50

Indoor CE RoHS

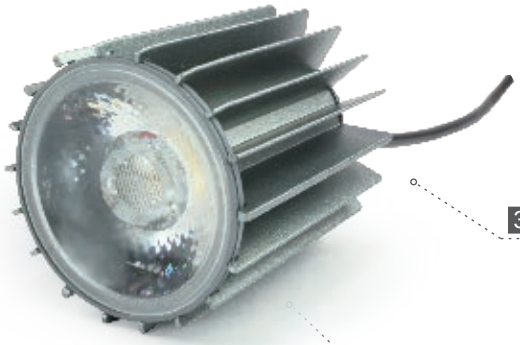
LED ψ50 Light Engine for Commercial Lighting

**F50MI-60WI5**
**1080 lm,** 15W

CREE MTG inside

100~240V AC

## Super High lumen for Commercial Lighting
**- Replace 75~100W halogen application**



1 ψ50 Light engine
Fit to MR16 fixture

2 Halogen-like accent beam
Beam Angle: 24° / 38°

3 Color consistency
Single bins at 2700K, 3000K

4 Hybrid Lens -
Reflector like collimator

### ◦ Features

- Replacing 75~100W halogen application
- High efficiency
- Offer great flexibility when designing LED luminaires
- Color consistency: Single CCT Bin at 2700K, 3000K
- Halogen-like accent beam: 24°/ 38°
- No UV or IR irradiation
- CE, RoHS

### ◦ Applications

- Commercial lighting, Area lighting, professional application...etc

## ◦ Specifications

### A Light Engine - F50

| Model | Diameter/Length | LED | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| F50M1-60W15-827-S24 | ψ50*60 mm | CREE MT-G2★1 | 15W | 2700K | 1000 / 850 lm | 24° | 3720 | 80 | 32~40 V DC |
| F50M1-60W15-827-S38 | | | | | | 38° | 1690 | | |
| F50M1-60W15-830-S24 | ψ50*60 mm | CREE MT-G2★1 | 15W | 3000K | 1080 / 910 lm | 24° | 4030 | 80 | 32~40 V DC |
| F50M1-60W15-830-S38 | | | | | | 38° | 1830 | | |

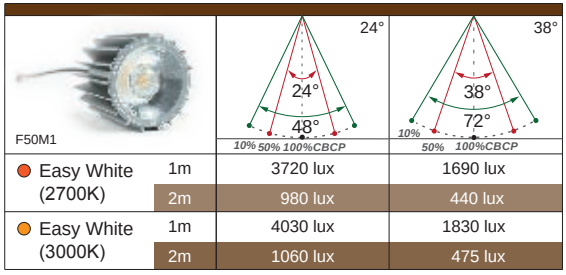
*** Lumens:** Cold at Tj=25°C , Hot at Tj=105°C ; variation is +/- 15% **; **CBCP:** Center Beam Candle power (cd) , variation is +/- 15%
**Operating Temp.:**-20~45°C (non-condensation environment) ;**Life time:** 40,000 hrs ; **Warranty:** 2 years, limited
★NOTE: Not for use in totally enclosed fixture or in fixture without air flow.
★CCT 4000K is available upon request.

### B Power

| Model | Watts | Input Volt | Current | PF | Efficiency |
|---|---|---|---|---|---|
| PS-CC01-W16C401-VACU | 16W | Input: 100~240V AC<br>Output: 32~40V DC | 400mA | PF>0.9 | Typ. 84% |

## ◦ Illumination Chart

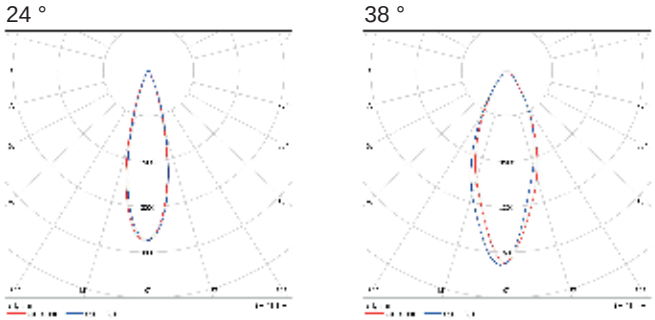
@50% CBCP — Beam Angle
@10% CBCP — Field Angle




| | | 24° | 38° |
|---|---|---|---|
| Easy White (2700K) | 1m | 3720 lux | 1690 lux |
| | 2m | 980 lux | 440 lux |
| Easy White (3000K) | 1m | 4030 lux | 1830 lux |
| | 2m | 1060 lux | 475 lux |

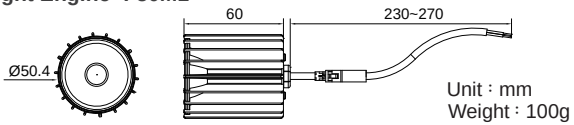
* Typical Lux Variation is +/- 15%

## ◦ Photometric



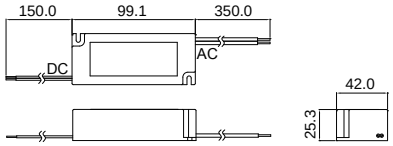

## ◦ Dimensions

### A Light Engine - F50M1




Unit：mm
Weight：100g

### B Power




Unit：mm
Weight：160g

## ◦ Ordering Code Guideline

EX: F50M1-60W15-827-S24
F1 F2 F3 F4

| F1 | F2 | F3 | F4 |
|---|---|---|---|
| **Model Type** | **Length-Watts** | **CRI,CCT** | **Beam Angle** |
| F50M1: ψ50 Light Engine (M1 type) | 60W15: Length 60mm, 15 Watts | 827: CRI >80, Easy White 2700K<br>830: CRI >80, Easy White 3000K | S24: 24 degree<br>S38: 38 degree |

## ◦ Accessory - Fixture

◉ Model: FTL-F50-H101x 00
Description: φ50 track light fixture
Material: Aluminum
Color: 00-Black
Size: 203x73x147.5 mm
Track type: x=L (2-wire)
x=H (3-wire)

◉ Model: FTL-F50-H101x 90
Description: φ50 track light fixture
Material: Aluminum
Color: 90-White
Size: 203x73x147.5 mm
Track type: x=L (2-wire)
x=H (3-wire)

## ◦ Package Information

| | Type | Qty | Dimension | Weight |
|---|---|---|---|---|
| **Lamp** | Carton | 100 pcs | 339x339x334 mm | 12.5 Kgs |
| **Power** | Box | 1 pc | 120x50x30 mm | 160 g |
| | Carton | 100 pcs | 430x290x200 mm | 17 Kgs |

# LuxLE-FIIIA9 (28W)

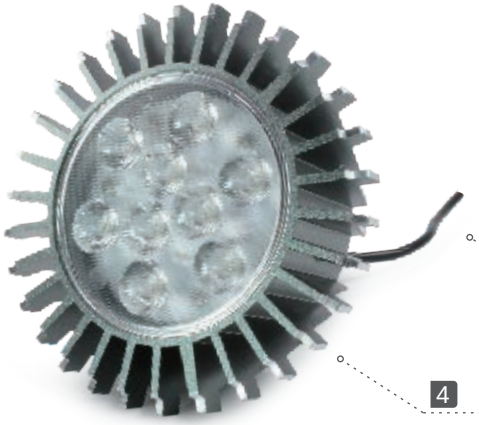
Indoor CE RoHS

LED ψ111 Light Engine for Commercial Lighting

**FIIIA9-45W28**
**1800 lm,** 28W

LIGHT BY LUXEON

## Super High Lumen for Commercial Lighting
**- Replace 125~150W halogen application**



1 ψ111 Light Engine
Fit to AR111 fixture

2 Halogen-like accent beam
Beam Angle: 16° / 24° / 36°

3 Color consistency
Single bins at 2700K, 3000K

4 Easy installation

### ◦ Features

- Replacing 125~150W halogen application
- High efficiency, high lumen, high CBCP for lighting
- Great flexibility in the complex fixtures
- Color consistency: Single CCT Bin at 2700K, 3000K
- Beam angle: 16° / 24° / 36°
- No UV or IR irradiation
- CE, RoHS

### ◦ Applications

- Commercial light, residential track light, recessed light application…, etc.

## ◦ Specifications

### A Light Engine - F111

| Model | Diameter/Length | LED | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| F111A9-45W28-827-S16<br>F111A9-45W28-830-S16 | ψ111 / 45 mm | LUXEON A *9 | 28W | 2700K<br>3000K | 1800 / 1650 lm | 16° | 13300 | 85 | 25~29.5 V DC |
| F111A9-45W28-827-S24<br>F111A9-45W28-830-S24 | ψ111 / 45 mm | LUXEON A *9 | 28W | 2700K<br>3000K | 1800 / 1650 lm | 24° | 6600 | 85 | 25~29.5 V DC |
| F111A9-45W28-827-S36<br>F111A9-45W28-830-S36 | ψ111 / 45 mm | LUXEON A *9 | 28W | 2700K<br>3000K | 1800 / 1650 lm | 36° | 2600 | 85 | 25~29.5 V DC |

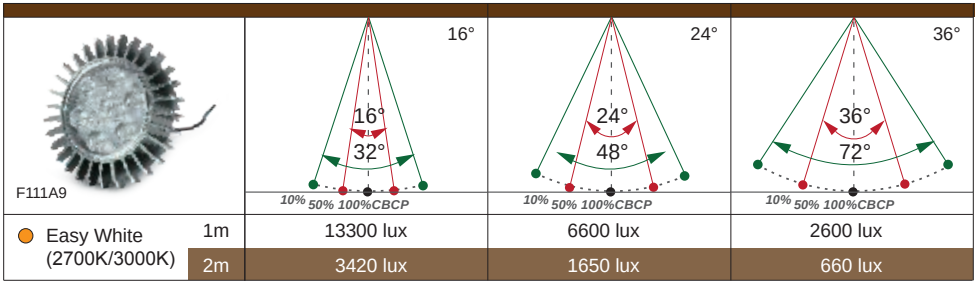
*** Lumens:** Cold at Tj=25°C , Hot at Tj=105°C ; variation is +/- 15% **; **CBCP:** Center Beam Candle power (cd) , variation is +/- 15%
**Operating Temp.:**-20~45°C (non-condensation environment) ;**Life time:** 40,000 hrs ; **Warranty:** 2 years, limited
★NOTE: Not for use in totally enclosed fixture or in fixture without air flow.

### B Power

| Model | Watts | Input Volt | Current | PF | Efficiency |
|---|---|---|---|---|---|
| PS-CC01-W30C951-VACU | 30W | Input: 100~240V AC<br>Output: 25~32V DC | 950mA | PF>0.9 | Typ. 84% |

## ◦ Illumination Chart

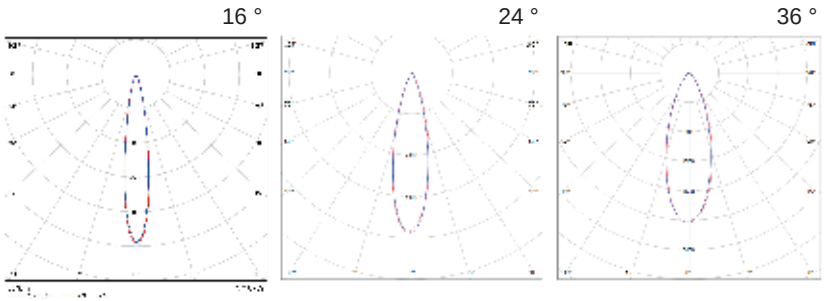
@50% CBCP — Beam Angle
@10% CBCP — Field Angle




| | | 16° | 24° | 36° |
|---|---|---|---|---|
| Easy White (2700K/3000K) | 1m | 13300 lux | 6600 lux | 2600 lux |
| | 2m | 3420 lux | 1650 lux | 660 lux |

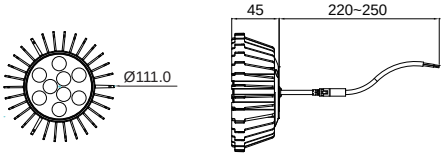
* Typical Lux Variation is +/- 15%

## ◦ Photometric



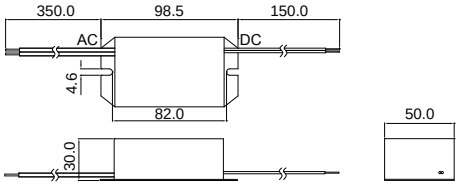
## ◦ Dimensions

### A Light Engine - F111




Unit：mm
Weight：220g

### B Power




Unit：mm
Weight：276.5g

## ◦ Ordering Code Guideline

EX: F111A9-45W28-827-S16
F1 F2 F3 F4

| F1 | F2 | F3 | F4 |
|---|---|---|---|
| **Model Type** | **Length-Watts** | **CRI,CCT** | **Beam Angle** |
| F111A9:<br>φ111 Light Engine<br>(A9 Type) | 45W28: Length 45mm,<br>28Watts | 827: CRI>80, East White 2700K<br>830: CRI >80, Easy White 3000K | S16: 16 degree<br>S16: 24 degree<br>S16: 36 degree |

## ◦ Accessory - Fixture

◉ Model: FTL-F111-H101x 00
Description: φ111 track light fixture
Material: Aluminum
Color: 00-Black
Size: 216x134x219.5 mm
Track type: x=L (2-wire)
x=H (3-wire)

◉ Model: FTL-F111-H101x 90
Description: φ111 track light fixture
Material: Aluminum
Color: 90-White
Size: 216x134x219.5 mm
Track type: x=L (2-wire)
x=H (3-wire)

## ◦ Package Information

| | Type | Qty | Dimension | Weight |
|---|---|---|---|---|
| **Lamp** | Carton | 40 pcs | 499x269x325 mm | 12.0 Kgs |
| **Power** | Box | 1 pc | 105x60x32 mm | 285 g |
| | Carton | 40 pcs | 365x260x200 mm | 12.5 Kgs |

# LuxLE-FTL-F50MI (18W)

Indoor CE RoHS

LED ψ50 Light Engine Track Light for Commercial Lighting

new

**FTL-F50MI**
**1080 lm,** 18W

CREE MTG inside

## Super High Lumen for Commercial Lighting
**- Replace 75~100W halogen application**

Track contact types for choices
• L: 2-wire • H: 3-wire

1 Easy installation

2 Halogen-like accent beam
- Beam Angle: 24°/38°

3 Color consistency
Single bins at 2700K, 3000K

4 Elegant ψ50 track light fixtures
Color: Black / White

### ◦ Features

- Replacing 75~100W halogen application
- High efficiency, high lumen
- Color consistency: Single CCT Bin at 2700K, 3000K
- Beam angle: 24°/38°
- Elegant Φ50 track light fixture
- Easy installation
- No UV or IR irradiation
- CE, RoHS

### ◦ Applications

• Commercial light, residential track light, recessed light application…, etc.

## ◦ Specifications

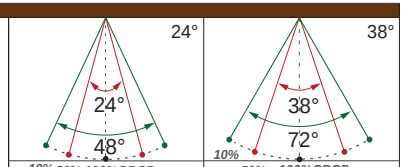
### ◉ FTL - F50M1

| Model | LED | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage | Size | Track Contact | Color |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FTL-F50M1-H101L-827S24-VACU 00 | CREE MT-G2 * 1 | 18W | 2700K | 1000 / 850 lm | 24° | 3720 | 80 | 100~240V AC | 203x73x147.5 mm | L: 2-wire | 00-Black |
| FTL-F50M1-H101L-827S24-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F50M1-H101L-827S38-VACU 00 | | | 3000K | | 38° | 1690 | | | | | 00-Black |
| FTL-F50M1-H101L-827S38-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F50M1-H101H-830S24-VACU 00 | CREE MT-G2 * 1 | 18W | 2700K | 1080 / 910 lm | 24° | 4030 | 80 | 100~240V AC | 203x73x147.5 mm | H: 3-wire | 00-Black |
| FTL-F50M1-H101H-830S24-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F50M1-H101H-830S38-VACU 00 | | | 3000K | | 38° | 1830 | | | | | 00-Black |
| FTL-F50M1-H101H-830S38-VACU 90 | | | | | | | | | | | 90-White |

*** Lumens:** Cold at Tj=25°C , Hot at Tj=105°C ; variation is +/- 15% **; **CBCP:** Center Beam Candle power (cd) , variation is +/- 15%
**Operating Temp.:**-20~45°C (non-condensation environment) ;**Life time:** 40,000 hrs ; **Warranty:** 2 years, limited

## ◦ Illumination Chart

@50% CBCP — Beam Angle
@10% CBCP — Field Angle

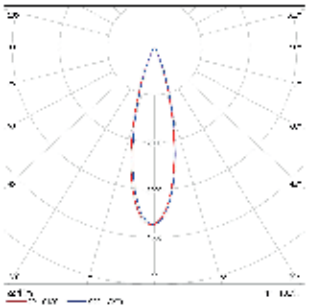



| | | 24° | 38° |
|---|---|---|---|
| Easy White (2700K) | 1m | 3720 lux | 1690 lux |
| | 2m | 980 lux | 440 lux |
| Easy White (3000K) | 1m | 4030 lux | 1830 lux |
| | 2m | 1060 lux | 475 lux |

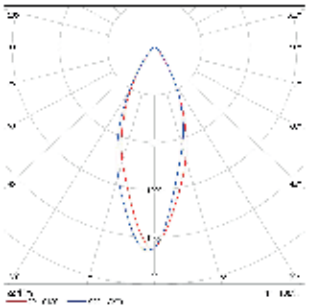
* Typical Lux Variation is +/- 15%

## ◦ Photometric

24 °



38 °



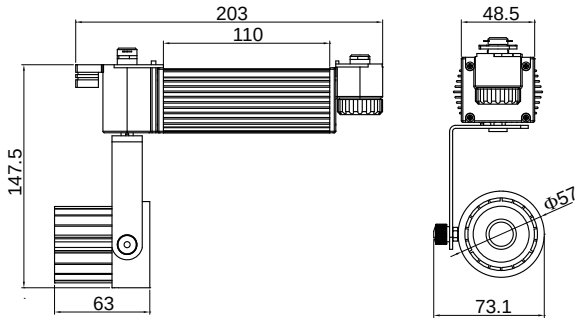
## ◦ Ordering Code Guideline

EX: FTL-F50M1-H101L-830S24-VACU 90
F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Model Type** | **Lamp** | **Shape** | **CRI, CCT, Beam Angle** | **Voltage, Fixture Color** |
| F: Fixture<br>TL: Track Light | F50M1: φ50 Light Engine (M1 Type) | H: Horizontal power setting<br>101: 1pc Lamp, type-01<br>L: 2-wire track<br>H: 3-wire track | 827: CRI>80, East White 2700K<br>830: CRI>80, East White 3000K<br>S24: 24 degree<br>S38: 38 degree | VACU: 100~240V AC<br>00- Black<br>90- White |

## Dimensions

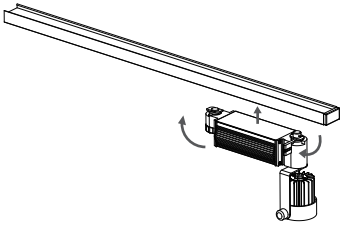
### FTL-F50M1



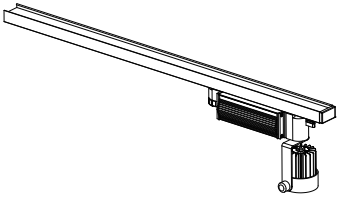

Unit : mm
N.W.: 500g

## ◦ Installation Guide - Light Engine Kit w/fixture

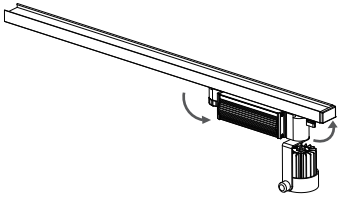
**Step 1:** Rotate the two track contacts horizontally to fit the track.



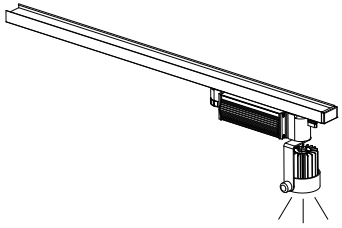
**Step 2:** Match the fixture to the polarity groove on the track.



**Step 3:** Rotate the two track contacts reversely to lock the fixture on the track.



**Step 4:** Connect to AC (90~264V) power.



## ◦ Package Information

| | Type | Qty | Dimension | Weight |
|---|---|---|---|---|
| **FTL-F50M1** | Box | 1 pc | 239x185x67 mm | 580 g |
| | Carton | 20 pcs | 495x385x355 mm | 13.6 Kgs |

# LuxLE-FTL-FIIIA9 (32W)

Indoor CE RoHS

LED ψ111 Light Engine Track Light for Commercial Lighting

new

**FTL-FIIIA9**
**1800 lm,** 32W

LIGHT BY LUXEON

## Super High Lumen for Commercial Lighting
**- Replace 125~150W halogen application**

1 Easy installation

Track contact types for choices
- L: 2-wire
- H: 3-wire

2 Halogen-like accent beam
- Beam Angle: 16° / 24° / 36°

3 Color consistency
Single bins at 2700K, 3000K

4 Elegant ψ111 track light fixtures for option
Color: Black / White

### ◦ Features

- Replacing 125~150W halogen application
- High efficiency, high lumen, high CBCP for lighting
- Color consistency: Single CCT Bin at 2700K, 3000K
- Beam angle: 16° /24° / 36°
- Elegant Φ111 track light fixture
- Easy installation
- No UV or IR irradiation
- CE, RoHS

### ◦ Applications

- Commercial light, residential track light, recessed light application…, etc.

## Specifications

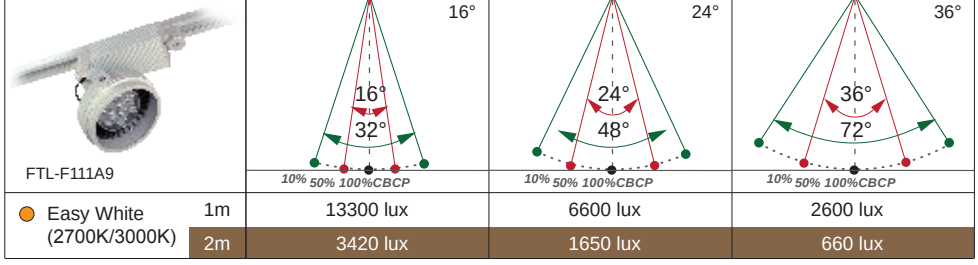
### ◉FTL - F111A9

| Model | LED | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage | Size | Track Contact | Color |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FTL-F111A9-H101L-827S16-VACU 00 | LUXEON A *9 | 32W | 2700K | 1800 / 1650 lm | 16° | 13300 | 85 | 100~240V AC | 216x134x219.5 mm | L: 2-wire | 00-Black |
| FTL-F111A9-H101L-827S16-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F111A9-H101L-830S16-VACU 00 | | | 3000K | | | | | | | | 00-Black |
| FTL-F111A9-H101L-830S16-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F111A9-H101H-827S16-VACU 00 | LUXEON A *9 | 32W | 2700K | 1800 / 1650 lm | 16° | 13300 | 85 | 100~240V AC | 216x134x219.5 mm | H: 3-wire | 00-Black |
| FTL-F111A9-H101H-827S16-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F111A9-H101H-830S16-VACU 00 | | | 3000K | | | | | | | | 00-Black |
| FTL-F111A9-H101H-830S16-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F111A9-H101L-827S24-VACU 00 | LUXEON A *9 | 32W | 2700K | 1800 / 1650 lm | 24° | 6600 | 85 | 100~240V AC | 216x134x219.5 mm | L: 2-wire | 00-Black |
| FTL-F111A9-H101L-827S24-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F111A9-H101L-830S24-VACU 00 | | | 3000K | | | | | | | | 00-Black |
| FTL-F111A9-H101L-830S24-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F111A9-H101H-827S24-VACU 00 | LUXEON A *9 | 32W | 2700K | 1800 / 1650 lm | 24° | 6600 | 85 | 100~240V AC | 216x134x219.5 mm | H: 3-wire | 00-Black |
| FTL-F111A9-H101H-827S24-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F111A9-H101H-830S24-VACU 00 | | | 3000K | | | | | | | | 00-Black |
| FTL-F111A9-H101H-830S24-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F111A9-H101L-827S36-VACU 00 | LUXEON A *9 | 32W | 2700K | 1800 / 1650 lm | 36° | 2600 | 85 | 100~240V AC | 216x134x219.5 mm | L: 2-wire | 00-Black |
| FTL-F111A9-H101L-827S36-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F111A9-H101L-830S36-VACU 00 | | | 3000K | | | | | | | | 00-Black |
| FTL-F111A9-H101L-830S36-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F111A9-H101H-827S36-VACU 00 | LUXEON A *9 | 32W | 2700K | 1800 / 1650 lm | 36° | 2600 | 85 | 100~240V AC | 216x134x219.5 mm | H: 3-wire | 00-Black |
| FTL-F111A9-H101H-827S36-VACU 90 | | | | | | | | | | | 90-White |
| FTL-F111A9-H101H-830S36-VACU 00 | | | 3000K | | | | | | | | 00-Black |
| FTL-F111A9-H101H-830S36-VACU 90 | | | | | | | | | | | 90-White |

*** Lumens:** Cold at Tj=25°C , Hot at Tj=105°C ; variation is +/- 15% **; **CBCP:** Center Beam Candle power (cd) , variation is +/- 15%
**Operating Temp.:**-20~45°C (non-condensation environment) ;**Life time:** 40,000 hrs ; **Warranty:** 2 years, limited

## Illumination Chart

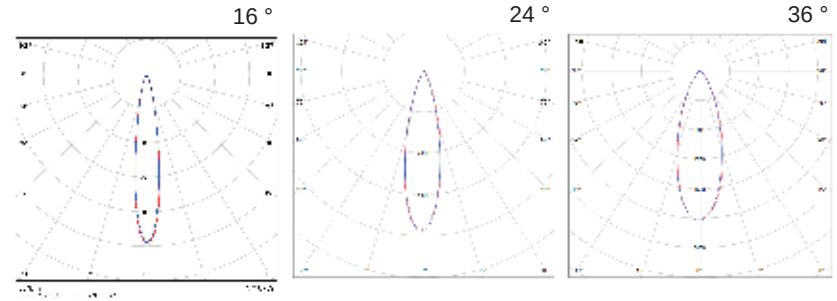
*@50% CBCP* — *Beam Angle*
*@10% CBCP* — *Field Angle*




| | | 16° | 24° | 36° |
|---|---|---|---|---|
| Easy White (2700K/3000K) | 1m | 13300 lux | 6600 lux | 2600 lux |
| | 2m | 3420 lux | 1650 lux | 660 lux |

* Typical Lux Variation is +/- 15%

## ◦ Photometric




## ◦ Ordering Code Guideline

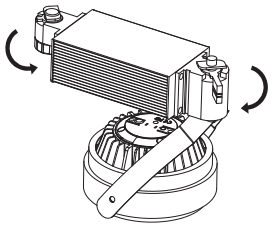
EX: FTL-F111A9-H101L-830S16-VACU 90

F1 F2 F3 F4 F5

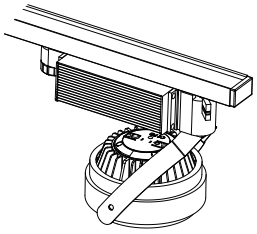
| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Model Type** | **Lamp** | **Shape** | **CRI, CCT, Beam Angle** | **Voltage, Fixture Color** |
| F: Fixture<br>TL: Track Light | F111A9: φ111 Light Engine (A9 Type) | H: Horizontal power setting<br>101: 1pc Lamp, type-01<br>L: 2-wire track<br>H: 3-wire track | 827: CRI>80, East White 2700K<br>830: CRI>80, East White 3000K<br>S16: 16 degree<br>S24: 24 degree<br>S36: 36 degree | VACU: 100~240V AC<br>00- Black<br>90- White |

## ◦ Installation Guide - Light Engine Kit w/fixture

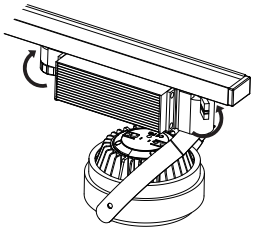
**Step 1:** Rotate the two track contacts horizontally to fit the track.



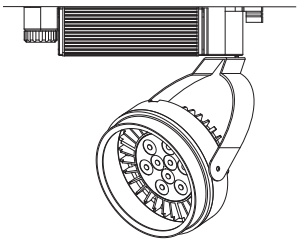
**Step 2:** Match the fixture to the polarity groove on the track.



**Step 3:** Rotate the two track contacts reversely to lock the fixture on the track.



**Step 4:** Connect to AC (90~264V) power.

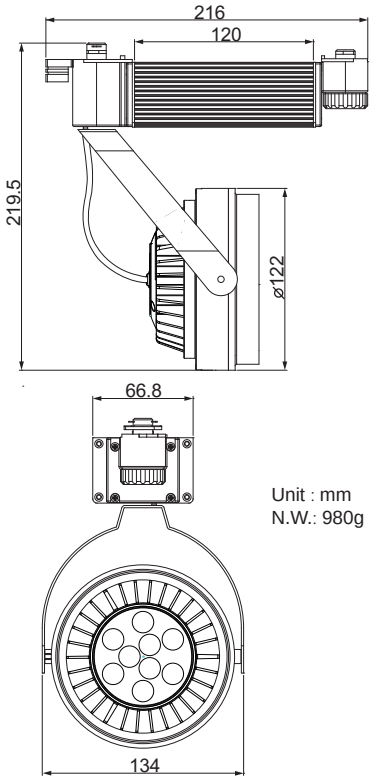


## ◦ Package Information

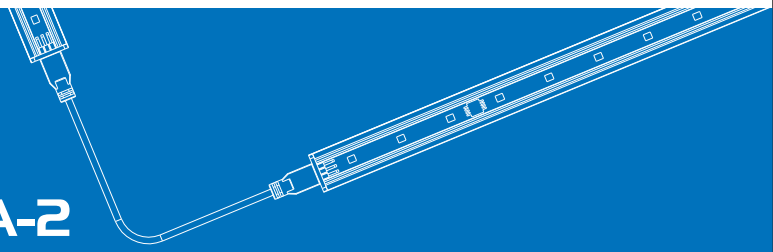
| | Type | Qty | Dimension | Weight |
|---|---|---|---|---|
| **FTL-F111A9** | Box | 1 pc | 270x270x85 mm | 1.2 Kgs |
| | Carton | 10 pcs | 560x460x290 mm | 14.0 Kgs |

## Dimensions

**FTL-F111A9**




Unit : mm
N.W.: 980g



# A-2
# Undercabinet

LED Linear Light with Ultra Thin Profile &
Extendable LED Tube Light

## *Content*

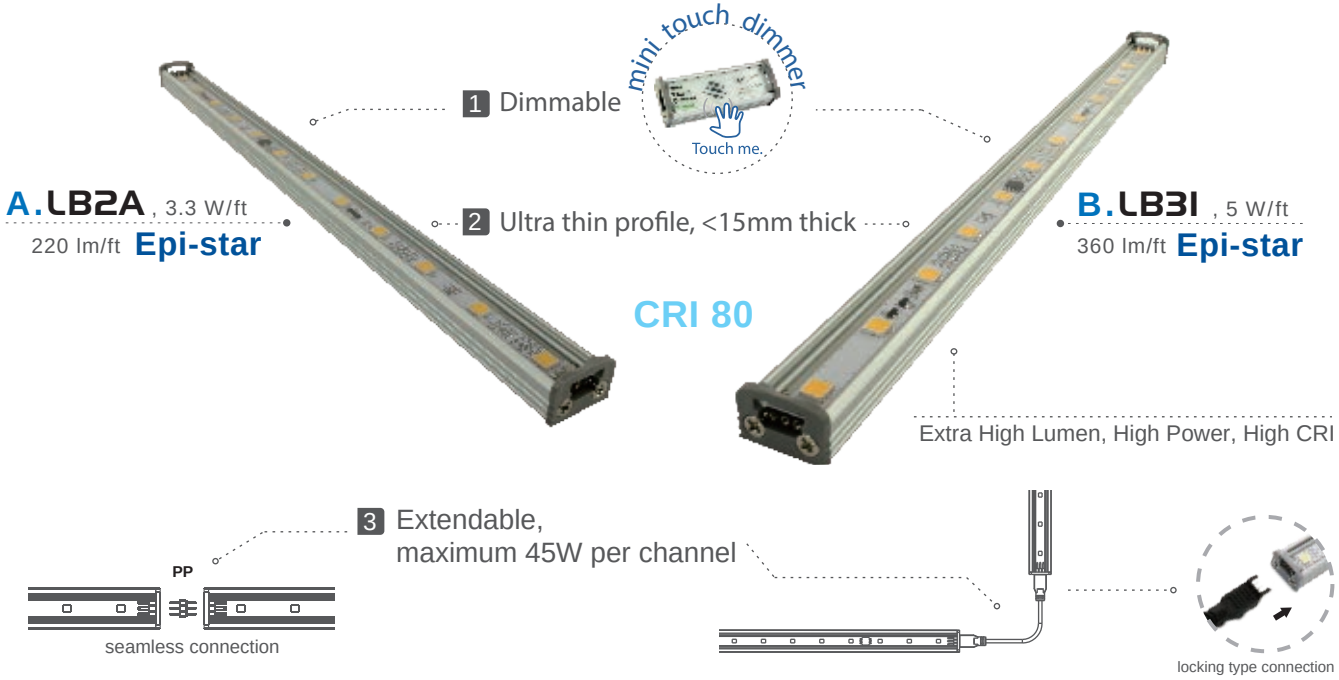
LuxBar Series

- LB2A/LB31 - Dimmable & Extendable
- Dimmer / Motion Sensor
- Accessory / Installation
- LB32 - Waterproof

# LuxBar Series

Indoor | PWM / DIM | Multiple Connect | CE | RoHS

Dimmable & Extendable LED Light Bar with Ultra Thin Profile




## ◦ Features

- Lighting facts listed, energy efficient: 3.3W/ft or 5W/ft; 24V DC operation
- Ultra thin profile, less than 15mm thick including the clips
- Extendable: using end-to-end connector or extension cord (max. 45W per channel)
- Dimmable: built-in dimming circuit for brightness control
- Built-in constant current driver for stable and uniform light output
- Non-polarized design, free of wrongly installation
- Available 3-colors & various lengths
- Accessories available: Interconnect cables, On/Off Switch, Power Cables, 24VDC Power, Dimmers/touch dimmer, and Mounting Clips
- CE, UL, RoHS

## ◦ Applications

- kitchens, cabinet, under cabinet, closets, bookshelf, cupboard, cove lighting...etc.

## ◦ Specifications

### A LB31, 5W/ft, Epi-star

| Model | LED | LED # | Length | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|---|
| LB31-DW-L7.5 | | | | | 5300~6300K | 90 / 86 lm | | 29 | | |
| LB31-NW-L7.5 | Epi-star | 3-Leds | 7.5 cm | 1.25W | 3900~4400K | 81 / 78 lm | 120° | 26 | 80 | 24V DC |
| LB31-WW-L7.5 | | | | | 2800~3200K | 74 / 71 lm | | 24 | | |
| LB31-DW-L15 | | | | | 5300~6300K | 180 / 172 lm | | 63 | | |
| LB31-NW-L15 | Epi-star | 6-Leds | 15 cm | 2.5W | 3900~4400K | 160 / 154 lm | 120° | 55 | 80 | 24V DC |
| LB31-WW-L15 | | | | | 2800~3200K | 150 / 144 lm | | 52 | | |
| LB31-DW-L30 | | | | | 5300~6300K | 360 / 344 lm | | 125 | | |
| LB31-NW-L30 | Epi-star | 12-Leds | 30 cm | 5W | 3900~4400K | 320 / 308 lm | 120° | 110 | 80 | 24V DC |
| LB31-WW-L30 | | | | | 2800~3200K | 300 / 288 lm | | 105 | | |
| LB31-DW-L60 | | | | | 5300~6300K | 720 / 688 lm | | 230 | | |
| LB31-NW-L60 | Epi-star | 24-Leds | 60 cm | 10W | 3900~4400K | 640 / 616 lm | 120° | 205 | 80 | 24V DC |
| LB31-WW-L60 | | | | | 2800~3200K | 600 / 576 lm | | 192 | | |
| LB31-DW-L90 | | | | | 5300~6300K | 1080 / 1032 lm | | 338 | | |
| LB31-NW-L90 | Epi-star | 36-Leds | 90 cm | 15W | 3900~4400K | 960 / 924 lm | 120° | 300 | 80 | 24V DC |
| LB31-WW-L90 | | | | | 2800~3200K | 900 / 864 lm | | 280 | | |
| LB31-DW-L120 | | | | | 5300~6300K | 1440 / 1376 lm | | 438 | | |
| LB31-NW-L120 | Epi-star | 48-Leds | 120 cm | 20W | 3900~4400K | 1280 / 1232 lm | 120° | 385 | 80 | 24V DC |
| LB31-WW-L120 | | | | | 2800~3200K | 1200 / 1152 lm | | 365 | | |

### B LB2A, 3.3W/ft, Epi-star

| Model | LED | LED # | Length | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|---|
| LB2A-DW-L15 | | | | | 5300~6300K | 110 / 105 lm | | 45 | | |
| LB2A-NW-L15 | Epi-star | 6-Leds | 15 cm | 1.65W | 3900~4400K | 110 / 105 lm | 120° | 45 | 80 | 24V DC |
| LB2A-WW-L15 | | | | | 2800~3200K | 95 / 90 lm | | 39 | | |
| LB2A-DW-L30 | | | | | 5300~6300K | 220 / 210 lm | | 90 | | |
| LB2A-NW-L30 | Epi-star | 12-Leds | 30 cm | 3.3W | 3900~4400K | 220 / 210 lm | 120° | 90 | 80 | 24V DC |
| LB2A-WW-L30 | | | | | 2800~3200K | 190 / 180 lm | | 77 | | |
| LB2A-DW-L60 | | | | | 5300~6300K | 440 / 420 lm | | 167 | | |
| LB2A-NW-L60 | Epi-star | 24-Leds | 60 cm | 6.6W | 3900~4400K | 440 / 420 lm | 120° | 167 | 80 | 24V DC |
| LB2A-WW-L60 | | | | | 2800~3200K | 380 / 360 lm | | 142 | | |
| LB2A-DW-L90 | | | | | 5300~6300K | 660 / 630 lm | | 243 | | |
| LB2A-NW-L90 | Epi-star | 36-Leds | 90 cm | 9.9W | 3900~4400K | 660 / 630 lm | 120° | 243 | 80 | 24V DC |
| LB2A-WW-L90 | | | | | 2800~3200K | 570 / 540 lm | | 208 | | |
| LB2A-DW-L120 | | | | | 5300~6300K | 880 / 840 lm | | 315 | | |
| LB2A-NW-L120 | Epi-star | 48-Leds | 120 cm | 13.2W | 3900~4400K | 880 / 840 lm | 120° | 315 | 80 | 24V DC |
| LB2A-WW-L120 | | | | | 2800~3200K | 720 / 685 lm | | 270 | | |

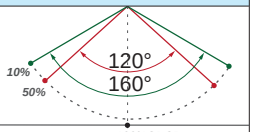
*** Lumens:** Cold at Tj=25°C , Hot is under thermal equilibrium(~Tj=50°C) ; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited

★ GENUINE NICHIA LED® Higher Lumen / Nichia LED version is available upon request

## ◦ Illumination Chart

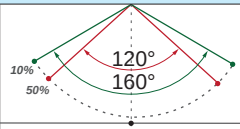
@50% CBCP — Beam Angle
@10% CBCP — Field Angle

| LB31-L30 | | |
|---|---|---|
| ○ Day White (5300~6300K) | 0.5m | 500 lux |
| | 1m | 125 lux |
| ○ Nature White (3900~4400K) | 0.5m | 440 lux |
| | 1m | 110 lux |
| ○ Warm White (2800~3200K) | 0.5m | 420 lux |
| | 1m | 105 lux |




* Typical Lux Variation is +/- 15%

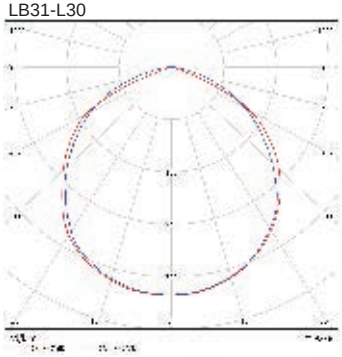
| LB2A-L30 | | |
|---|---|---|
| ○ Day White (5300~6300K) | 0.5m | 360 lux |
| | 1m | 90 lux |
| ○ Nature White (3900~4400K) | 0.5m | 360 lux |
| | 1m | 90lux |
| ○ Warm White (2800~3200K) | 0.5m | 310 lux |
| | 1m | 77 lux |



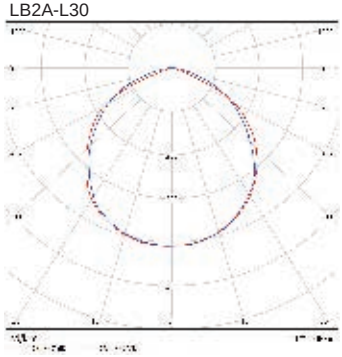

* Typical Lux Variation is +/- 15%

## ◦ Photometric

LB31-L30

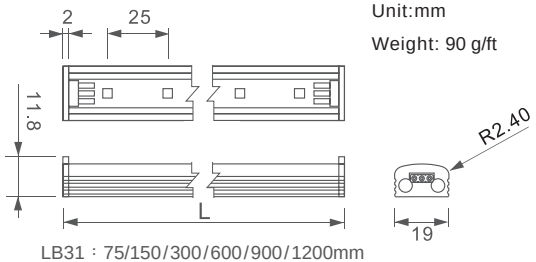


LB2A-L30



## ◦ Dimensions

Unit:mm
Weight: 90 g/ft




LB31：75/150/300/600/900/1200mm
LB2A：150/300/600/900/1200mm

## ◦ Ordering Code Guideline

EX: LB31-WW-L30
F1 F2 F3

| F1 | F2 | F3 | |
|---|---|---|---|
| **Model Type** | **Color(CCT)** | **Length** | |
| LB31: light bar type - 31 | DW：5300~6300K | L7.5：7.5cm | L60：60cm |
| | NW：3900~4400K | L15：15cm | L90：90cm |
| | WW：2800~3200K | L30：30cm | L120：120cm |
| LB2A: light bar type - 2A | DW：5300~6300K | L15：15cm | L90：90cm |
| | NW：3900~4400K | L30：30cm | L120：120cm |
| | WW：2800~3200K | L60：60cm | |

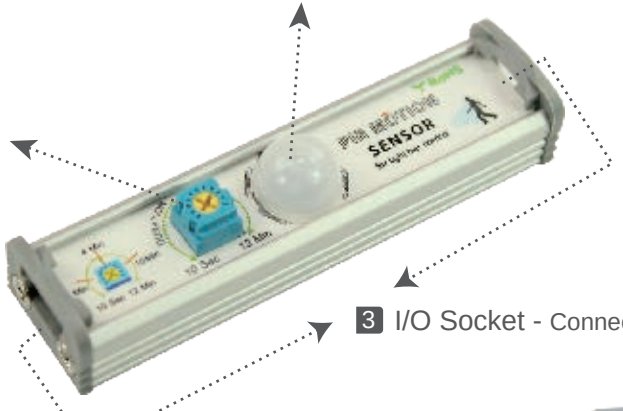
# PIR Motion Sensor for LuxBar - LB2A/LB31

PIR Motion Sensor for lighting control

## A. MMS1000

1 Tuner-Control "ON" period
from 10 sec. to 12 mins

2 Sensor




3 I/O Socket - Connect to adaptor or light bar

Specific power cable (gray color) , with switch
"required" when the PIR motion sensor is connected

| Specification | |
|---|---|
| Input Voltage(V) | 12 / 24 VDC |
| Wattage(W) | 0.1 Watt @no-load |
| Sensing Distance(M) | 2.0 M |
| Sensing Angle | 100 degree |
| Turn on Reset Time | 25 sec |
| On Period | 10sec.~12min. |
| Size (mm) | 74.2*19.4*15.6 |

# Mini Touch Dimmer for LuxBar - LB2A/LB31

Elegant in-line touch dimmer for dimming control

## B. SDC1000

1 Sensor Area
- Touch to turn on / off
- Touch and hold to dim the brightness
  - > Remember the dimming setting as long as power is applied
  - > 0~100% dimming

2 I/O Socket
- Connect to adaptor or light bar

Specific power cable (gray color)
"required" when the Mini touch dimmer is connected

## ◦ Ordering Code

| Model | Description |
|---|---|
| MMS1000set01 | PIR motion sensor MMS1000set01<br>(incl. MMS1000*1, LB-MMSPL02-L30SW, M1*1,M3*1,PP*2) |
| SDC1000set01 | Mini touch dimmer SDC1000set01<br>(incl. SDC1000*1, LB-MDPL02-L30,M1*1, PP*2) |

**< Accessory >**

| Model | Description |
|---|---|
| LB-MMSPL02-L30SW | specific power line for MMS1000, L30cm w/switch |
| LB-MDPL02-L30 | specific power line for SDC1000, L30cm |

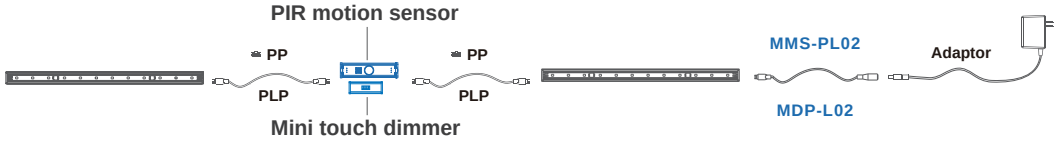
## ◦ MMS1000/SDC1000 Installation Guide

★ How to install MMS1000 or SDC1000?

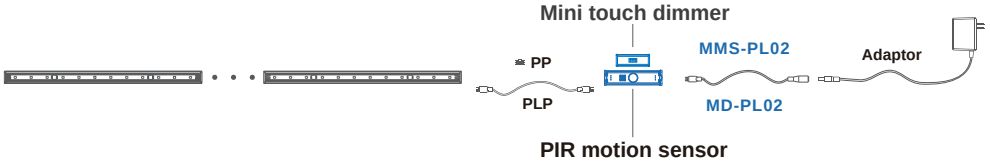
You may place the **dimmer** or **sensor anywhere** in your layout- at the head end, tail end or in between

**Scenario 1:** at the "end" of a chain

**Scenario 2:** at the "middle" of a chain




**Scenario 3:** at the "beginning" of a chain




**PP : Connection Pin**

**PLP : Connection Cable**

**MMS-PL02 : Specific power line for Motion Sensor**

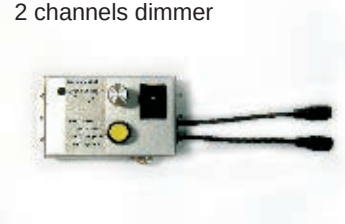
**MD-PL02 : Specific power line for Mini touch dimmer**

★Max Connection:**45W**

# Manual Dimmer for LuxBar - LB2A / 31

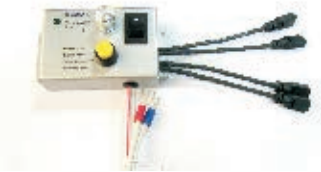
## 1 DDC 2000

2 channels dimmer



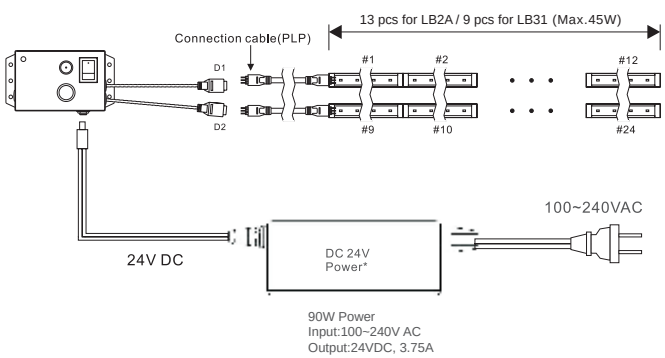
## 2 DDC 4000

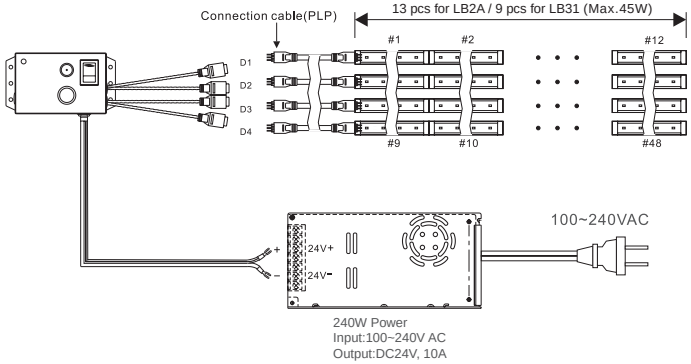
4 channels dimmer



### ◦ Ordering Code

| Model | Description |
|---|---|
| DDC 2000 | 2 channel dimmer Set (incl. 1*DDC2000, 2*LB-PLP-L25, 1*user manual) |
| DDC 4000 | 4 channel dimmer Set (incl. 1*DDC4000, 2*LB-PLP-L25, 1*user manual) |



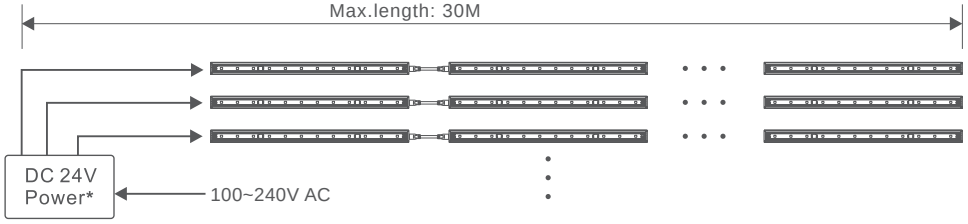




### ◦ Channel connection rule

- **Single (30cm)**

Max.45W per channel
{ 13pcs for LB2A (30cm)
{ 9pcs for LB31 (30cm)

- **Multiple (30cm)**




Max.45W per channel
{ 13pcs for LB2A (30cm)
{ 9pcs for LB31 (30cm)

*DC 24V power selection guide: Total wattage > (LightBar total wattage ) * 1.3

# LuxBar- Accessory & Installation

## ★ How to power LuxBar?

The light bar requires a 24V DC power supply/adaptor to power on. You will also need a power line (see the diagram below) to connect Bar-to-Power. Without a power line you can not connect power to the special fitting on the end of the bar.

### A Power Line (Bar-to-adaptor/power)

1 PL02

**Model No. :** LB-PL02-LXX
**Description:**
Power line w/ locking (standard)
**Length :** 30/50/100cm

2 PL-RA

**Model No. :** LB-PL-LXXRA
**Description:**
Power line w/right angle
**Length :** 50/183cm

3 PL02-SW

**Model No. :** LB-PL02-LXXSW
**Description:**
Power line w/switch & locking
**Length :** 30cm

4 PL02-W

**Model No. :** LB-PL02-LXXW
**Description:**
Power line w/2-wire out & locking
(Not suitable for dimmer usage )
**Length :** 50cm

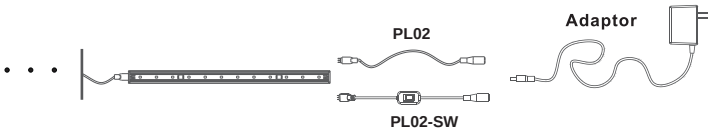
5 SPT2

**Model No. :** LB-SPT2
**Description:**
Power Splitter, 1-in/2-out

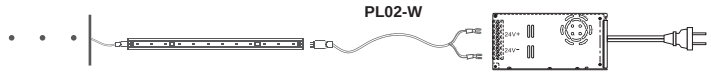
### ◦ *Installation* – Power line

1 **PL02:** Bar-to-Adaptor connection cable

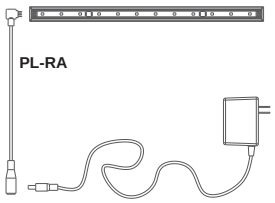
2 **PL02-SW :** Bar-to-Adaptor connection cable with inline switch




3 **PL02-W:** Bar-to-power connection wire (With 2-wire out)



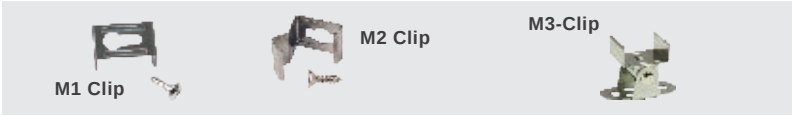

4 **PL-RA :** Bar-to-Adaptor connection cable (Right Angle pin-plug)




## ★ How to mount LuxBar?

There are 3-types of Mounting Clips for different choices:
1) Flat Type,
2) 45°Angle Type
3) Turnable type (180° rotation).

### B Mounting Clip




1 LB-M1

**Model No. :** LB-M1
**Description:**
Flat type mounting clip (w/ screw)

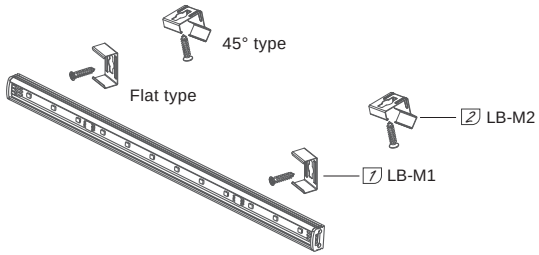
2 LB-M2

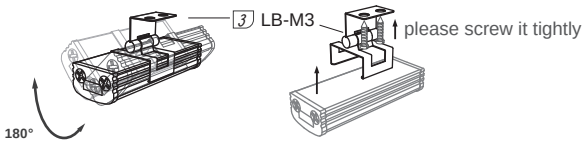
**Model No. :** LB-M2
**Description:**
45 degree type mounting clip (w/ screw)

3 LB-M3

**Model No. :** LB-M3
**Description:**
Turnable mounting clip w/screw (180 degree rotation)

## ◦ Installation – Mounting Clip




# ★ How to Extend LuxBar?

There are several types of interconnectors for joining two bars together.

## C Connection Cable & Joint

1 PP

**Model No. :** LB-PP
**Description:**
Seamless Bar-to-Bar connector

2 Back Clip

**Model No. :** LB-BBC
**Description:**
Bar-to-Bar back clip to lock two bars seamless together (with LB-PP)

3 LB-BLC

**Model No.:** LB-BLC
**Description:**
Bar-to-line clip to lock the bars and cables

4 PLP02

**Model No. :** LB-PLP02-LXX
**Description:**
Bar-to-Bar connection cable w/locking
**Length :**
25/50/100/150/183cm

5 PPJ

**Model No. :** LB-PPJ
**Description:**
Cable-to-Cable extension joint

6 PLP-UJ

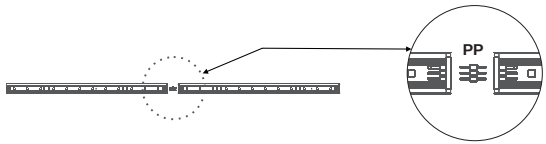
**Model No. :** LB-PLP-UJ
**Description:**
U-shape jumper between Bars

7 MCJ

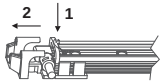
**Model No. :** LB-MCJ
**Description:**
Multiple Cable-to-Cable extension joint

## ◦ Installation – Connection Cable & Joint

1 **PP :** Seamless Bar-to-Bar connection cable

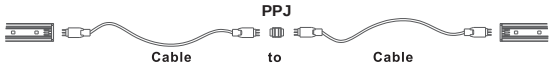



2 **LB-BLC :** Fix the light bar and power line / connection cable

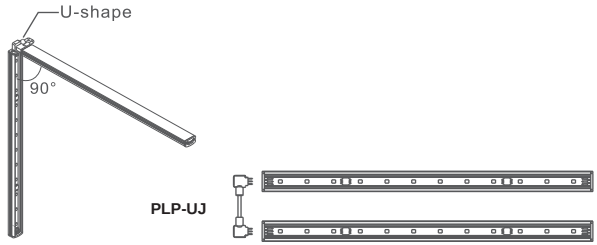


3 **PLP02 :** Medium range Bar-to-Bar connection cable

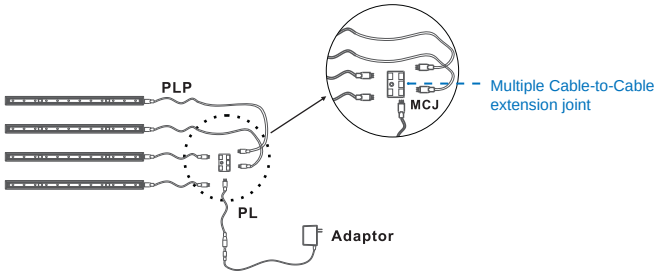
4 **PPJ :** Cable-to-Cable extension joint

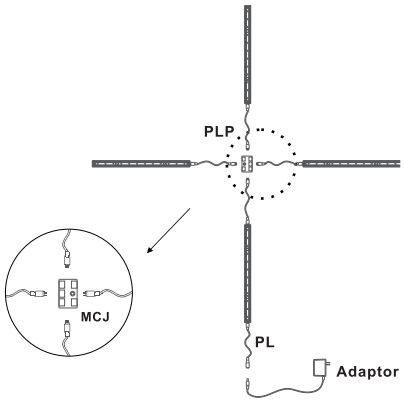



5 **PLP-UJ :** Compact Bar-to-Bar connection cable




6 MCJ : Multiple Cable-to-Cable extension joint



## D Adaptor / Power

1 24W adaptor (US)

**Model No. :** PS-V24-W24-X1
**Type:** Wall-mounted
**AC Plug:** US
**Output(W):** 24Watt
**Input(V):** 90~264VAC
**Output(V/Imax):** 24VDC/1.0A

2 24W adaptor (Euro)

**Model No. :** PS-V24-W24-X2
**Type:** Wall-mounted
**AC Plug:** EU
**Output(W):** 24Watt
**Input(V):** 90~264VAC
**Output(V/Imax):** 24VDC/1.0A

3 48W adaptor (US)

**Model No. :** PS-V24-W48-X1Set
**Type:** Desktop
**AC Plug:** US
**Output(W):** 48Watt
**Input(V):** 90~264VAC
**Output(V/Imax):** 24VDC/2.0A

4 48W adaptor (Euro)

**Mode No. :** PS-V24-W48-X2Set
**Type:** Desktop
**AC Plug:** EU
**Output(W):** 48Watt
**Input(V):** 90~264VAC
**Output(V/Imax):** 24VDC/2.0A

5 90W adaptor (US)

**Model No. :** PS-V24-W90-X1Set
**Type:** Desktop
**AC Plug:** US
**Output(W):** 90Watt
**Input(V):** 90~264VAC
**Output(V/Imax):** 24VDC/3.75A

6 90W adaptor (Euro)

**Model No. :** PS-V24-W90-X2Set
**Type:** Desktop
**AC Plug:** EU
**Output(W):** 90Watt
**Input(V):** 90~264VAC
**Output(V/Imax):** 24VDC/3.75A

7 Power supply

**Mode No. :** PS-V24-W100/W240
**Type:** Enclosed
**AC Plug:** N/A
**Output(W):** 100 Watt / 240 Watt
**Input(V):** 90~264VAC
**Output(V/Imax):** 24VDC / 4.5A or 10A

## E Diffuser

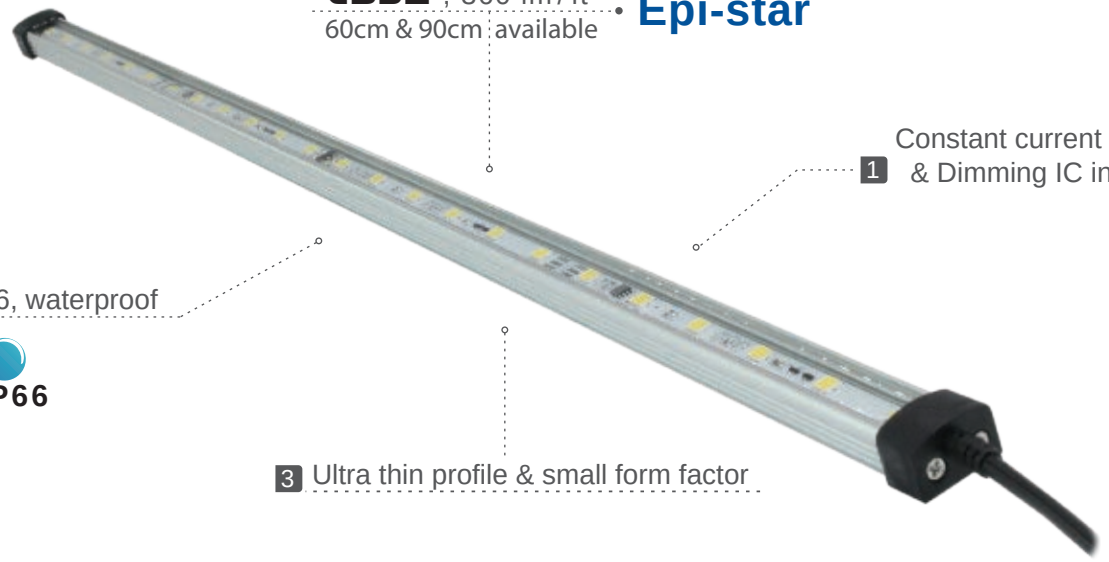
| Model | Description |
|---|---|
| LB-DF02-L63 | Diffuser for 7.5 cm light bar (LB31 only) |
| LB-DF02-L142 | Diffuser for 15cm light bar |
| LB-DF02-L288 | Diffuser for 30cm light bar |
| LB-DF02-L588 | Diffuser for 60cm light bar |
| LB-DF02-L888 | Diffuser for 90cm light bar |
| LB-DF02-L1188 | Diffuser for 120cm light bar |

# LuxBar-LB32

IP66 LED Light Bar with Ultra thin Profile

RoHS

**LB32** , 360 lm / ft
60cm & 90cm available • **Epi-star**



1 Constant current driver & Dimming IC inside

2 IP66, waterproof

IP66

3 Ultra thin profile & small form factor

## ◦ Features

- Super high lumen brightness
- IP66, waterproof for semi-outdoor application
- Built-in LED driver for stable and uniform light output
- No UV/IR, low heat and long lifetime
- Lengths: 60, 90 cm available
- CE, RoHS

## ◦ Applications

• Semi-outdoor linear light, Contour lighting,Show Case lighting... etc.

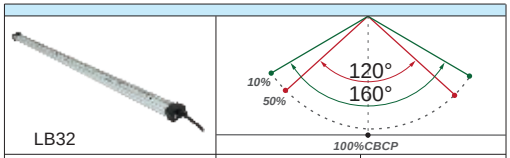
## ◦ Specifications

| Model | LED | LED # | Length | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|---|
| LB32-DW-L60-SE2 | | | | | 5300~6300K | 720 / 688 lm | | 230 | | |
| LB32-NW-L60-SE2 | Epi-star | 24-Leds | 60 cm | 10W | 3900~4400K | 640 / 616 lm | 120° | 205 | 80 | 24V DC |
| LB32-WW-L60-SE2 | | | | | 2800~3200K | 600 / 576 lm | | 192 | | |
| LB32-DW-L90-SE2 | | | | | 5300~6300K | 1080 / 1032 lm | | 338 | | |
| LB32-NW-L90-SE2 | Epi-star | 36-Leds | 90 cm | 15W | 3900~4400K | 960 / 924 lm | 120° | 300 | 80 | 24V DC |
| LB32-WW-L90-SE2 | | | | | 2800~3200K | 900 / 864 lm | | 280 | | |

*** Lumens:** Cold at Tj=25°C, Hot at Tj=50°C; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd), variation is +/- 15%
**Operating Temp.:** -20~45°C(non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited

## ◦ Illumination Chart

@50% CBCP — Beam Angle
@10% CBCP — Field Angle

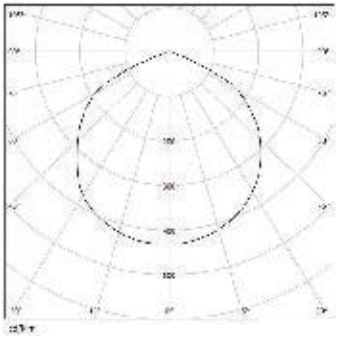



| Length | | 60cm | 90cm |
|---|---|---|---|
| ○ Day White (5300~6300K) | 1m | 230 lux | 338 lux |
| ○ Nature White (3900~4400K) | 1m | 205 lux | 300 lux |
| ○ Warm White (2800~3200K) | 1m | 195 lux | 280 lux |

* Typical Lux Variation is +/- 15%

## ◦ Photometric

LB32

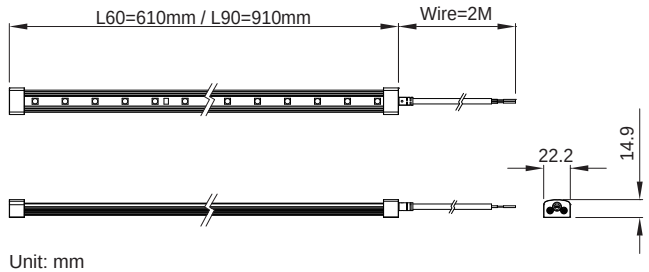


## ◦ Ordering Code Guideline

EX: LB32-DW-L90-SE2
F1 F2 F3 F4

| F1 | F2 | F3 | F4 |
|---|---|---|---|
| **Model Type** | **Color(CCT)** | **Length** | **Wire-out Type** |
| LB32: IP66 light bar -Type 32 | DW：5300~6300K<br>NW：3900~4400K<br>WW：2800~3200K | L60：60cm<br>L90：90cm | SE2：single-ended, 2-wires out |

## ◦ Dimensions




Unit: mm
Weight: 260g (60cm)
345g (90cm)

## ◦ Package Information

| | Qty | Dimension | | Weight |
|---|---|---|---|---|
| (60cm) **Carton** | 60 pcs | 670 x 285 x 182 | mm | 17.2 Kgs |
| (90cm) **Carton** | 60 pcs | 960 x 285 x 182 | mm | 22.8 Kgs |

# A-3
# Cove/Contour Lighting

Dimmable & Extendable LED Tube Light

## *Content*

LuxTube Series

- T5 - DC, 24V
- T8 - DC, 24V

# LuxTube-T5 , DC type

LED T5 DC Tube Light for Cove Lighting Application

Indoor CE RoHS

1 Diffused optical cover
Non-glare

**T53I-24V DC**

6W, 430 lm, 549mm **Epi-star**

2 Easy installation:
no fixture needed

**Extendable and dimmable**

3 Standard G5 base

4 Metal heat sink

### ◦ *Features*

- Extendable and dimmable
- Excellent optical design, non-glare
- Easy installation: no fixture needed; accessories available
- Low maintenance cost
- CE, RoHS

### ◦ *Applications*

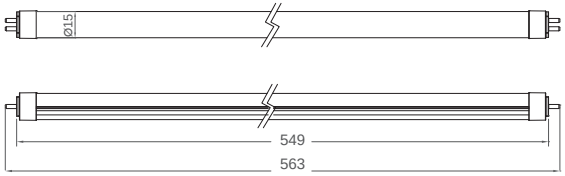
- General lighting, parking lot lighting, factory lighting, aquirium lighting, show case, cove light, etc...

## ◦ Specifications

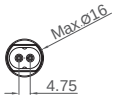
| Model | LED | LED # | Base | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Length / Diameter | Voltage |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T531-DW-L549-V24 | | | | | 5700~6300K | 430 / 410 lm | | 140 | | | |
| T531-NW-L549-V24 | Epi-star | 54-Leds | G5 | 6W | 3700~4300K | 430 / 410 lm | 140° | 140 | 70 | 549 / 15 mm | 24V DC |
| T531-WW-L549-V24 | | | | | 2800~3200K | 405 / 385 lm | | 125 | | | |

*** Lumens:** Cold at Tj=25°C , Hot at Tj=55°C ; variation is +/- 15% ; ****CBCP :** Center Beam Candle Power (cd), variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited

## ◦ Dimensions

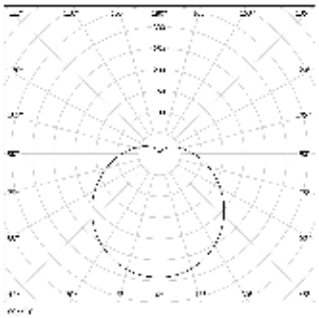



Unit : mm
Weight : 90g




## ◦ Photometric

L549



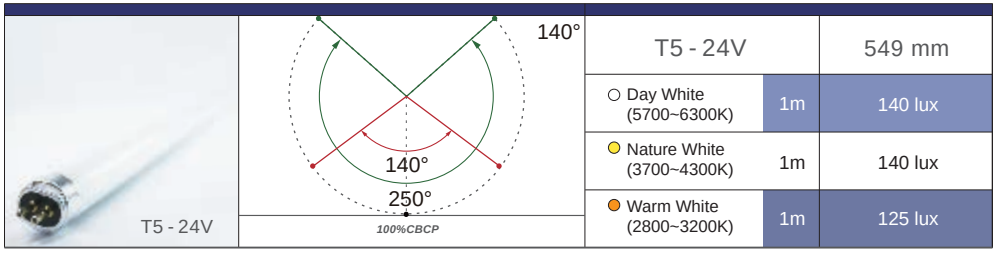
## ◦ Ordering Code Guideline

EX: T531-DW-L549-V24
F1 F2 F3 F4

| F1 | F2 | F3 | F4 |
|---|---|---|---|
| **Model Type** | **LED Color** | **Length** | **Voltage Type** |
| T531: T5 tube, Type- 31 (Epi-star) | DW: 5700~6300K<br>NW: 3700~4300K<br>WW: 2800~3200K | L549: 549mm | V24: 24V DC |

## ◦ Illumination Chart

*@50% CBCP* — *Beam Angle*
*@10% CBCP* — *Field Angle*




| T5 - 24V | | 549 mm |
|---|---|---|
| ○ Day White (5700~6300K) | 1m | 140 lux |
| ○ Nature White (3700~4300K) | 1m | 140 lux |
| ○ Warm White (2800~3200K) | 1m | 125 lux |

* Typical Lux Variation is +/- 15%

## ◦ *Accessory* for DC tube

1 Connection Cable

**Model No. :** LTB-PLP-G5-Lxx
**Description:**
Tube-to-Tube Connection Cable(G5)

2 Power Cable

**Model No. :** LTB-PL-G5-Lxx
**Description:**
Tube-to-Power Cable line(G5)

3 Adjustable Clamps

**Model No. :** CL-2 Adjustable Tube Clamps
**Description:**
Tube Adjustable Clamps

## ◦ *Package Information*

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Carton** | 100 pcs | 605 x 445 x 155 mm | 11.5 Kgs (T5-2 ft) |

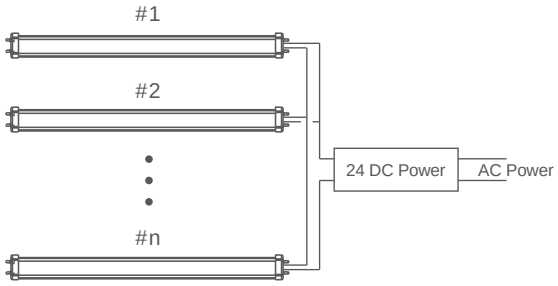
## ◦ *24V T5 Tube Dimmable Solution*

• 24V DC

+

• 24V Dimmable power

(I.)




(II.)

* n= 8 pcs for 2ft

# LuxTube-T8 , DC type

LED T8 DC Tube Light for cove lighting application

Indoor CE RoHS

1 Truly frosted optical cover
Non-glare

**T83I-24V DC**

24W, 2000 lm **Epi-star**

2 Easy installation:
no fixture needed

**Extendable and dimmable**

3 Standard G13 base
with fire-resist end cap

4 Metal heat sink



### ◦ *Features*

- Extendable and dimmable
- Excellent optical design, non-glare, truly frosted and uniform
- Easy installaion: no fixture needed
- Lower maintenance cost
- CE, RoHS

### ◦ *Applications*

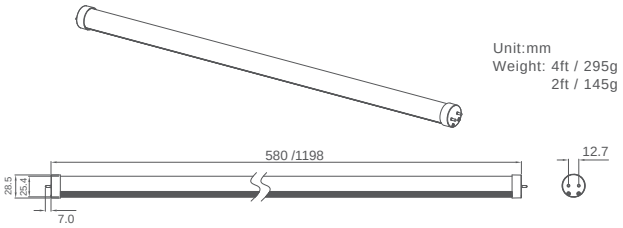
General lighting, parking lot lighting, factory lighting, aquirium lighting, show case, cove light, etc...

## ◦ Specifications

| Model | LED | LED # | Base | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Length / Diameter | Cover | Voltage |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T831-DW-L580H-V24 | Epi-star | 96-Leds | G13 | 12W | 5700~6300K | 1000 / 900 lm | 140° | 265 | 70 | 580 / 25.4 mm | Heavy Diffused | 24V DC |
| T831-NW-L580H-V24 | | | | | 3700~4300K | 1000 / 900 lm | | 265 | 70 | | | |
| T831-WW-L580H-V24 | | | | | 2800~3200K | 900 / 810 lm | | 250 | 70 | | | |
| T831-DW-L1198H-V24 | Epi-star | 192-Leds | G13 | 24W | 5700~6300K | 2000 / 1800 lm | 140° | 450 | 70 | 1198 / 25.4 mm | Heavy Diffused | 24V DC |
| T831-NW-L1198H-V24 | | | | | 3700~4300K | 2000 / 1800 lm | | 450 | 70 | | | |
| T831-WW-L1198H-V24 | | | | | 2800~3200K | 1800 / 1620 lm | | 425 | 70 | | | |

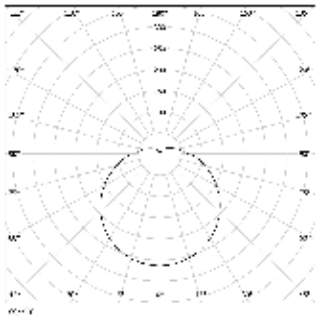
*** Lumens:** Cold at Tj=25°C , Hot at Tj=65°C ; variation is +/- 15% ; ****CBCP :** Center Beam Candle Power (cd), variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited

## ◦ Dimensions

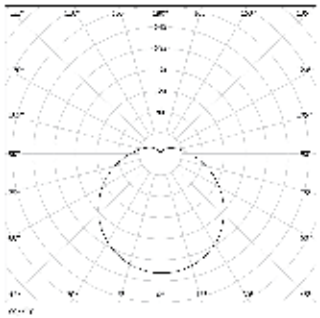



## ◦ Photometric

L580



L1198



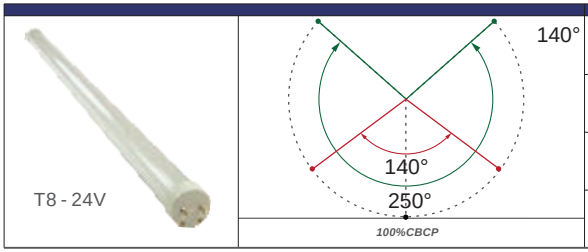
## ◦ Ordering Code Guideline

EX: T831-DW-L580H-V24
F1 F2 F3 F4

| F1 | F2 | F3 | F4 |
|---|---|---|---|
| **Model Type** | **LED Color** | **Length, Cover Type** | **Voltage Type** |
| T831: T8 tube, Type- 31 (Epi-star) | DW: 5700~6300K<br>NW: 3700~4300K<br>WW: 2800~3200K | L580H: 580mm, H: Heavy Diffused<br>L1198H: 1198mm, H: Heavy Diffused | V24: 24V DC |

## ◦ Illumination Chart

@50% CBCP — Beam Angle
@10% CBCP — Field Angle




| T8 - 24V | | 580 mm | 1198 mm |
|---|---|---|---|
| ○ Day White (5700~6300K) | 1m | 265 lux | 450 lux |
| | 2m | 80 lux | 135 lux |
| ○ Nature White (3700~4300K) | 1m | 265 lux | 450 lux |
| | 2m | 80 lux | 135 lux |
| ○ Warm White (2800~3200K) | 1m | 250 lux | 425 lux |
| | 2m | 75 lux | 128 lux |

* Typical Lux Variation is +/- 15%

## ◦ *Accessory* for DC tube

1 Connection Cable

**Model No. :** LTB-PLP-G13-Lxx
**Description:**
Tube-to-Tube Connection Cable(G13)

2 Power Cable

**Model No. :** LTB-PL-G13-Lxx
**Description:**
Tube-to-Power Cable line(G13)

3 Adjustable Clamps

**Model No. :** CL-4 Adjustable Tube Clamps
**Description:**
Tube Adjustable Clamps

## ◦ *Package Information*

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Carton** | 20 pcs | 663 x 245 x 217 mm | 4.4 Kgs (T8-2 ft) |
| **Carton** | 20 pcs | 1272 x 245 x 217 mm | 8.1 Kgs (T8-4 ft) |

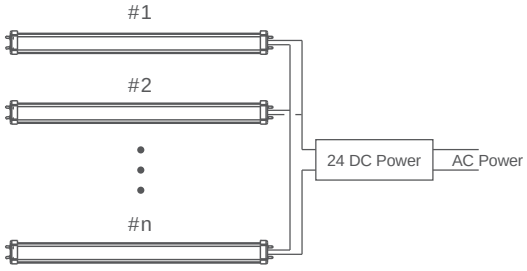
## ◦ *24V T8 Tube Dimmable Solution*

• 24V DC

+

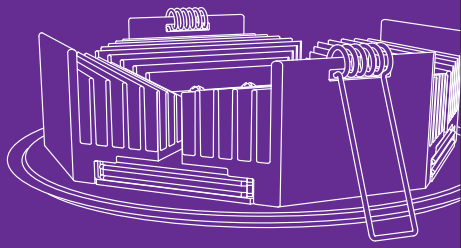
• 24V Dimmable power

(I.)




(II.)

* n= 8 pcs for 2ft
n= 4 pcs for 4ft



# General Lighting A-4

High power LED Luminaires for General Lighting

## *Content*

LuxPL Series - Panel Light

- FP6060/1230 (CE compliant)
- UP6060/1230 (UL listing)

LuxDL Series - Down Light

- Down Light 18W: 6P3N (edge-lit)
- Down Light 17W: 6D41 (6")
- Down Light 10W: xD31 (3" / 4" / 5")

# Panel Light - 60x60 (R/S)

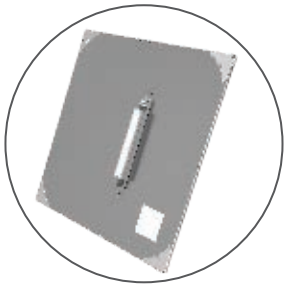
Indoor CE RoHS

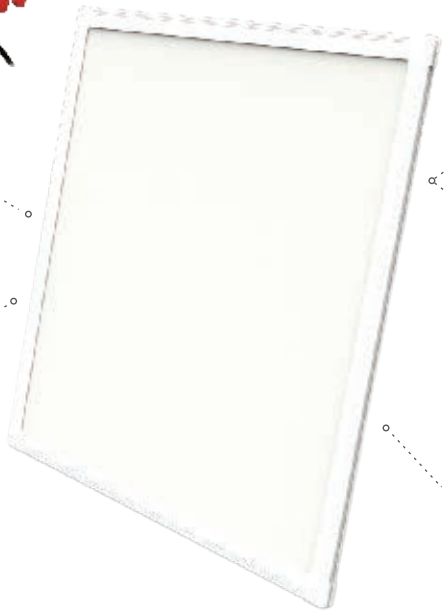
LED Panel Light suitable for Recessed and Suspended mounting

new

1 Non-glare & Highly uniform

2 Reliable power design





- **A.FP5959:** 596x596mm
- **B.FP6060:** 601x601mm
- 53W,4200 lm

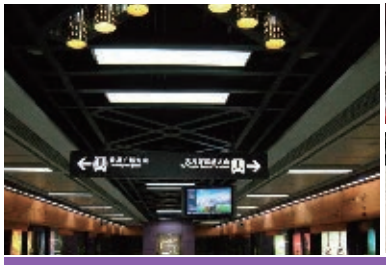
- **C.FP6262:** 621x621mm
- 53W,3700 lm

3 Suitable for Recessed & Suspended mounting

## ◦ Features

- Edge-lit panel technology
- Non-glare & Highly uniform
- Various sizes: available in 596x596, 601x601, 621x621
- Replacing 4 x 20W T8 fluorescent troffer
- Energy saving
- Compact dimension
- Suspended kit is to be ordered separately
- Easy installation
- CE, RoHS

## ◦ Applications



• Office, meeting room, factory/clean room, classroom...etc

## ◦ Specifications

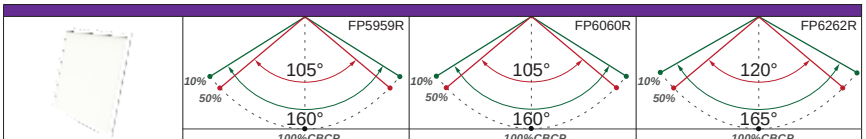
**Panel : FP5959R / FP6060R / FP6262R**

| Model | LED | Size | Type: x | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|---|
| LPL-FP5959x-DW-W53-VACU | TW LED (edge-lit) | 596x596x43 mm (power included) | R: Recessed S: Suspended | 53W | 5200~5900K | 4200 / 3950 lm | 105° | 1520 | 80 | 100~240V AC |
| LPL-FP5959x-NW-W53-VACU | | | | | 3600~4100K | 4200 / 3950 lm | | 1520 | | |
| LPL-FP5959x-WW-W53-VACU | | | | | 2800~3100K | 3750 / 3550 lm | | 1380 | | |
| LPL-FP6060x-DW-W53-VACU | TW LED (edge-lit) | 601x601x43 mm (power included) | R: Recessed S: Suspended | 53W | 5200~5900K | 4200 / 3950 lm | 105° | 1520 | 80 | 100~240V AC |
| LPL-FP6060x-NW-W53-VACU | | | | | 3600~4100K | 4200 / 3950 lm | | 1520 | | |
| LPL-FP6060x-WW-W53-VACU | | | | | 2800~3100K | 3750 / 3550 lm | | 1380 | | |
| LPL-FP6262x-DW-W53-VACU | TW LED (edge-lit) | 621x621x43 mm (power included) | R: Recessed S: Suspended | 53W | 5200~5900K | 3700 / 3500 lm | 120° | 1140 | 80 | 100~240V AC |
| LPL-FP6262x-NW-W53-VACU | | | | | 3600~4100K | 3700 / 3500 lm | | 1140 | | |
| LPL-FP6262x-WW-W53-VACU | | | | | 2800~3100K | 3300 / 3100 lm | | 1015 | | |

*** Lumens:** Cold at Tj=25°C ; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited
★Suspended Type is available with suspended kit

## ◦ Illumination Chart

*@50% CBCP — Beam Angle*
*@10% CBCP — Field Angle*

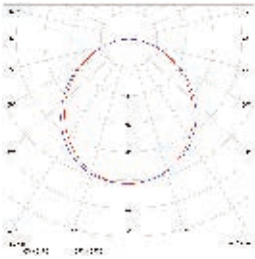



| | | FP5959R | FP6060R | FP6262R |
|---|---|---|---|---|
| ○ Day White (5200~5900K) | 1m | 1520 lux | 1520 lux | 1140 lux |
| | 2m | 430 lux | 430 lux | 325 lux |
| ● Nature White (3600~4100K) | 1m | 1520 lux | 1520 lux | 1140 lux |
| | 2m | 430 lux | 430 lux | 325 lux |
| ● Warm White (2800~3100K) | 1m | 1380 lux | 1380 lux | 1015 lux |
| | 2m | 390 lux | 390 lux | 290 lux |

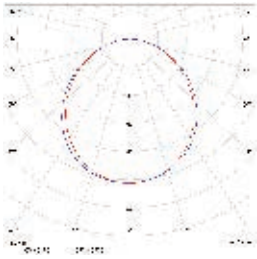
* Typical Lux Variation is +/- 15%

## ◦ Photometric

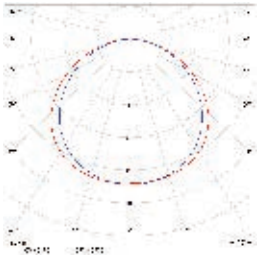
FP5959



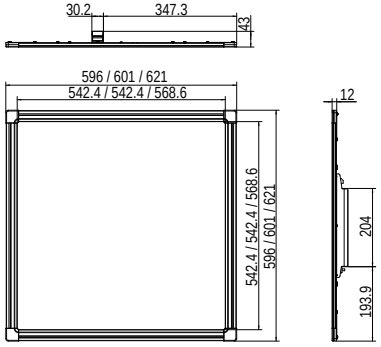
FP6060



FP6262



## ◦ Dimensions




Unit:mm
Weight: 4.3kgs

## ◦ Ordering Code Guideline

EX: LPL-FP6060R-DW-W53-VACU-B01
F1 F2 F3 F4 F5 F6

| F1 | F2 | F3 | F4 | F5 | F6 |
|---|---|---|---|---|---|
| **Series** | **Size / Type** | **Color(CCT)** | **Wattage** | **Voltage** | **Package Type** |
| LPL: LuxPL Series | FP5959: Panel 59x59 | DW: 5200~5900K | W53: 53W | VACU: 100~240V | (Blank): Industrial (3pcs) |
| | FP6060: Panel 60x60 | NW: 3600~4100K | | | B01: Box type-01 (1pc) |
| | FP6262: Panel 62x62 | WW: 2800~3100K | | | |
| | R: Recessed type | | | | |
| | S: Suspended type | | | | |

## ◦ Package Information

### A Industrial Package

| | Qty | Dimension | Weight |
|---|---|---|---|
| (FP5959R) **Carton** | 3 pcs | 693 x 682 x 227 mm | 14.8 Kgs |
| (FP6060R) **Carton** | 3 pcs | 693 x 682 x 227 mm | 14.8 Kgs |
| (FP6262R) **Carton** | 3 pcs | 713 x 702 x 227 mm | 15 Kgs |

### B Box Package (B01 type)

| | Qty | Dimension | Weight |
|---|---|---|---|
| (FP5959R) **Carton** | 1 pc | 702 x 682 x 119 mm | 6.4 Kgs |
| (FP6060R) **Carton** | 1 pc | 702 x 682 x 119 mm | 6.4 Kgs |
| (FP6262R) **Carton** | 1 pc | 722 x 702 x 119 mm | 6.6 Kgs |

# Panel Light - 120x30 (R/S)

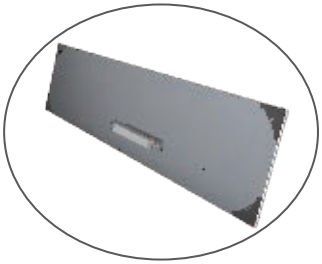
Indoor CE RoHS

LED Panel Light suitable for Recessed and Suspended mounting

1 Non-glare & Highly uniform

**FP1230R:** 1198x298mm
53W, 3800 lm

2 Reliable power design

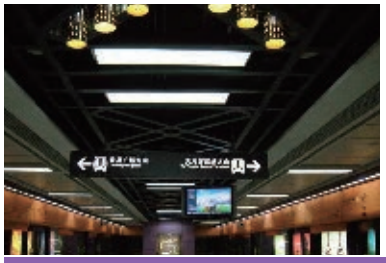


3 Suitable for Recessed & Suspended mounting

### ◦ Features

- Edge-lit panel technology
- Non-glare & Highly uniform
- Replacing 2x40W T8 fluorescent troffer
- Energy saving
- Compact dimension
- Suspended kit is to be ordered separately
- Easy installation
- CE, RoHS

### ◦ Applications



• Office, meeting room, factory/clean room, classroom...etc

## ◦ Specifications

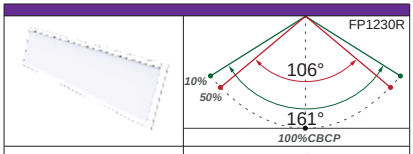
**Panel : FP1230R**

| Model | LED | Size | Type: x | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|---|
| LPL-FP1230R-DW-W53-VACU | TW LED (edge-lit) | 1198x298x43 mm (power included) | R: Recessed S: Suspended | 53W | 5200~5900K | 3800 / 3600 lm | 106° | 1110 | 80 | 100~240V AC |
| LPL-FP1230R-NW-W53-VACU | | | | | 3600~4100K | 3800 / 3600 lm | | 1110 | | |
| LPL-FP1230R-WW-W53-VACU | | | | | 2800~3100K | 3400 / 3250 lm | | 988 | | |

*** Lumens:** Cold at Tj=25°C ; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited
★Mounted and Suspended Type is available with accessory-set

## ◦ Illumination Chart

@50% CBCP — Beam Angle
@10% CBCP — Field Angle

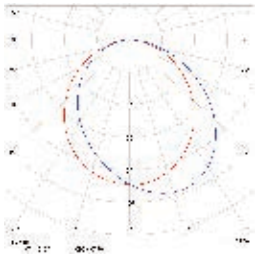



| | | |
|---|---|---|
| ○ Day White (5200~5900K) | 1m | 1110 lux |
| | 2m | 340 lux |
| ● Nature White (3600~4100K) | 1m | 1110 lux |
| | 2m | 340 lux |
| ● Warm White (2800~3100K) | 1m | 988 lux |
| | 2m | 305 lux |

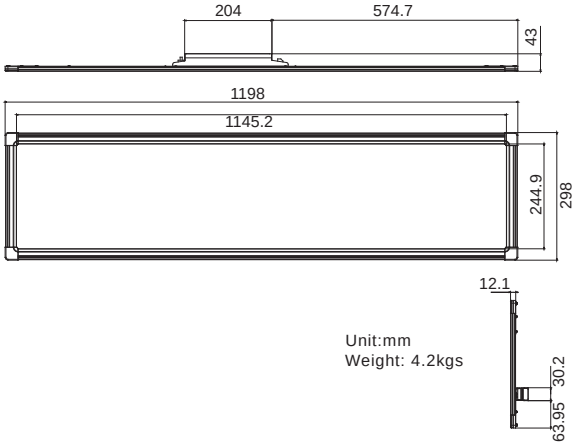
* Typical Lux Variation is +/- 15%

## ◦ Photometric

FP1230R



## ◦ Dimensions




Unit:mm
Weight: 4.2kgs

## ◦ Ordering Code Guideline

EX: LPL-FP1230R-DW-W53-VACU-B01
F1 F2 F3 F4 F5 F6

| F1 | F2 | F3 | F4 | F5 | F6 |
|---|---|---|---|---|---|
| **Series** | **Size / Type** | **Color(CCT)** | **Wattage** | **Voltage** | **Package Type** |
| LPL: LuxPL Series | FP1230: Panel 120x30 | DW: 5200~5900K | W53: 53W | VACU: 100~240V | (Blank): Industrial (3pcs) |
| | R: Recessed type | NW: 3600~4100K | | | B01: Box type-01 (1pc) |
| | S: Suspended type | WW: 2800~3100K | | | |

## ◦ Package Information

### A Industrial Package

| | Qty | Dimension | Weight |
|---|---|---|---|
| (FP1230R) **Carton** | 3 pcs | 1398 x 693 x 227 mm | 15.5 Kgs |

### B Box Package (B01 type)

| | Qty | Dimension | Weight |
|---|---|---|---|
| (FP1230R) **Carton** | 1 pc | 1332 x 382 x 119 mm | 5.9 Kgs |

# Panel Light - 60x60 (UL listing)

LED Panel Light Available in 602x602 of Recessed or Mounted Type

Indoor CE RoHS

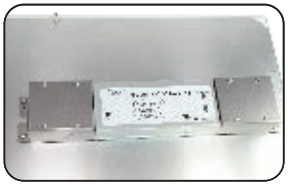
1 **Prismatic diffuser**
Non-glare &
highly uniform

2 Ultra Thin

3 Different brightness:
40W, 2900 lm / 60W, 4300 lm

**UP6060R**: Recessed Type

**UP6060M**: Mounted Type



Reliable driver:120~277V AC

4 Dimmable version for option
(0~10V dimming)

### ◦ *Features*

- Edge-lit panel technology
- Prismatic diffuser: Non-glare & Highly uniform
- Easy Installation: available in Mounted or Suspended type
- Different brightness: 40W / 60W for choice
- Replacing 4 x 20W T8 florescent troffer, >50% power-saving
- Compact dimension, ultra-thin
- Large visible area
- UL listing

### ◦ *Applications*

• Office, meeting room, factory/clean room, classroom...etc

## ◦ Specifications

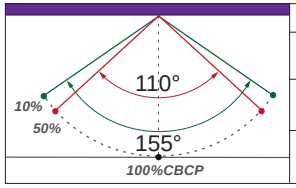
**Panel : UP6060 (Recessed or Mounted Type)**

| Model | LED | Size | Type : X | Watts | CCT | Lumens* (Cold) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|---|
| UP6060X-DW-W40-V277 | TW LED (edge-lit) | 602x602x50 mm (power included) | R: Recessed M: Mounted | 40W | 5300~6000K | 2900 lm | 110° | 1200 | 80 | 120~277V AC |
| UP6060X-NW-W40-V277 | | | | | 3700~4100K | 2900 lm | | 1200 | 80 | |
| UP6060X-WW-W40-V277 | | | | | 2800~3000K | 2700 lm | | 1130 | 80 | |
| UP6060X-DW-W60-V277 | TW LED (edge-lit) | 602x602x50 mm (power included) | R: Recessed M: Mounted | 60W | 5300~6000K | 4300 lm | 110° | 1820 | 80 | 120~277V AC |
| UP6060X-NW-W60-V277 | | | | | 3700~4100K | 4300 lm | | 1820 | 80 | |
| UP6060X-WW-W60-V277 | | | | | 2800~3000K | 4050 lm | | 1700 | 80 | |
| UP6060X-DW-W40-V277-D | TW LED (edge-lit) | 602x602x50 mm (power included) | R: Recessed M: Mounted | 40W | 5300~6000K | 2900 lm | 110° | 1200 | 80 | 120~277V AC |
| UP6060X-NW-W40-V277-D | | | | | 3700~4100K | 2900 lm | | 1200 | 80 | |
| UP6060X-WW-W40-V277-D | | | | | 2800~3000K | 2700 lm | | 1130 | 80 | |
| UP6060X-DW-W60-V277-D | TW LED (edge-lit) | 602x602x50 mm (power included) | R: Recessed M: Mounted | 60W | 5300~6000K | 4300 lm | 110° | 1820 | 80 | 120~277V AC |
| UP6060X-WW-W60-V277-D | | | | | 3700~4100K | 4300 lm | | 1820 | 80 | |
| | | | | | 2800~3000K | 4050 lm | | 1700 | 80 | |

*** Lumens:** Cold at Tj=25°C ; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited

## ◦ Illumination Chart

*@50% CBCP — Beam Angle*
*@10% CBCP — Field Angle*

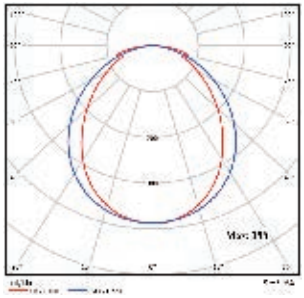



| Watts | | 40W | 60W |
|---|---|---|---|
| ○ Day White (5300~6000K) | 2m | 340 lux | 500 lux |
| ○ Nature White (3700~4100K) | 2m | 340 lux | 500 lux |
| ○ Warm White (2800~3300K) | 2m | 320 lux | 470 lux |

* Typical Lux Variation is +/- 15%

## ◦ Photometric

110°

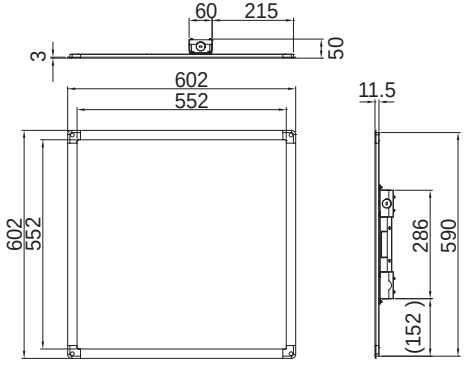


## ◦ Ordering Code Guideline

EX: LPL-UP6060R-DW-W40-V277-D
F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Series** | **Size / Type** | **Color(CCT)** | **Wattage** | **Voltage** |
| LPL: LuxPL Series | UP6060: Panel 602x602 (UL certified)<br>R: Recessed<br>M: Mounted | DW: 5300~6000K<br>NW: 3700~4100K<br>WW: 2800~3000K | W40 : 40W<br>W60 : 60W | V277: 120~277V<br>V277-D: 120~277V, Dimmable |

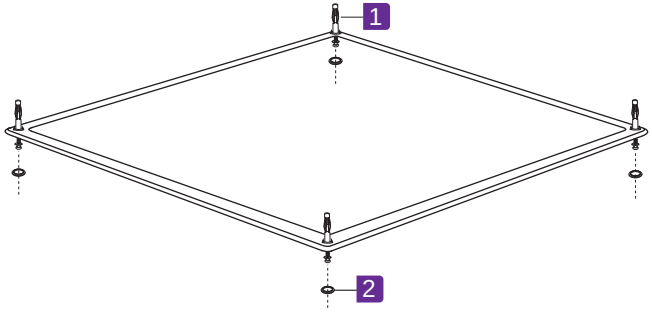
## ◦ Dimensions




Unit:mm
Weight: 3.7kgs

## ○ Accessory

**Mounted type :** UP6060M
Incl. Mounted kits (LPL-MTset01)




**The Accessory attached with Mounted kits (LPL-MTset01) including:**

1

**Blind Rivet x 4**
**(Suitable for 3~7mm Wooden or Calcium Silicate Board )**

2

**Decorative Cap (white) x 4**

## ○ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Carton** | 4 pcs | 682x 720x 270 mm | 18.4 Kgs |

# Panel Light - 120x30 (UL listing)

LED Panel Light in 120x30 of Recessed Type

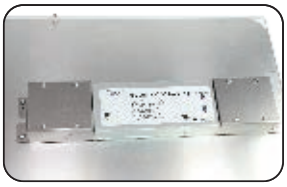
**UP1230R** : Recessed Type

60W, 4300 lm

1 **Prismatic diffuser**

Non-glare &
highly uniform

Reliable driver:120~277V AC



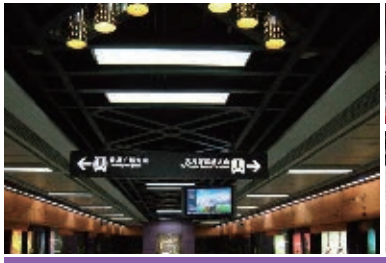
2 Ultra Thin

3 Dimmable version for option

## ◦ *Features*

- Edge-lit panel technology
- Prismatic diffuser: Non-glare & Highly uniform
- Easy Installation
- Replacing 3 x 40W T8 florescent troffer, >50% power-saving
- Compact dimension, ultra-thin
- Large visible area
- UL listing

## ◦ *Applications*



• Office, meeting room, factory/clean room, classroom...etc

## ◦ Specifications

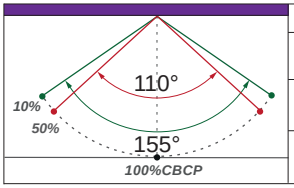
**Panel : UP1230 (Recessed Type)**

| Model | LED | Size | Type | Watts | CCT | Lumens* (Cold) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|---|
| UP1230R-DW-W60-V277 | TW LED (edge-lit) | 1196x315x50 mm (power included) | Recessed | 60W | 5300~6000K | 4300 lm | 110° | 1680 | 80 | 120~277V AC |
| UP1230R-NW-W60-V277 | | | | | 3700~4100K | 4300 lm | | 1680 | | |
| UP1230R-WW-W60-V277 | | | | | 2800~3000K | 4050 lm | | 1570 | | |
| UP1230R-DW-W60-V277-D | TW LED (edge-lit) | 1196x315x50 mm (power included) | Recessed | 60W | 5300~6000K | 4300 lm | 110° | 1680 | 80 | 120~277V AC |
| UP1230R-NW-W60-V277-D | | | | | 3700~4100K | 4300 lm | | 1680 | | |
| UP1230R-WW-W60-V277-D | | | | | 2800~3000K | 4050 lm | | 1570 | | |

*** Lumens:** Cold at Tj=25°C ; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15% range
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited

## ◦ Illumination Chart

*@50% CBCP — Beam Angle*
*@10% CBCP — Field Angle*

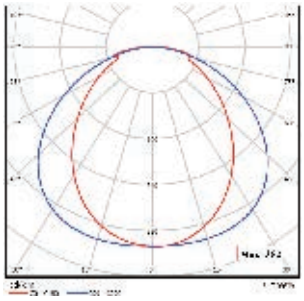



| Watts | | 60W |
|---|---|---|
| Day White (5300~6000K) | 2m | 470 lux |
| Nature White (3700~4100K) | 2m | 470 lux |
| Warm White (2800~3000K) | 2m | 440 lux |

* Typical Lux Variation is +/- 15%

## ◦ Photometric

110°

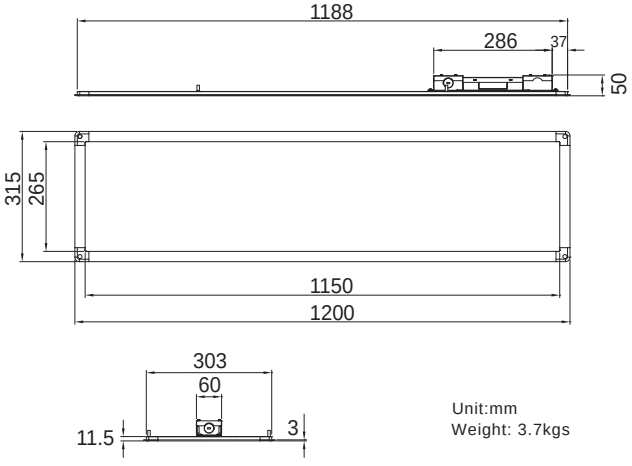


## ◦ Ordering Code Guideline

EX: LPL-UP1230R-DW-W60-V277-D
F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Series** | **Size / Type** | **Color(CCT)** | **Wattage** | **Voltage** |
| LPL: LuxPL Series | UP1230: Panel 120x30 (UL certified)<br>R: Recessed | DW：5300~6000K<br>NW：3700~4100K<br>WW：2800~3000K | W60 : 60W | V277: 120~277V<br>V277-D: 120~277V, Dimmable |

## ◦ Dimensions




Unit:mm
Weight: 3.7kgs

## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Carton** | 4 pcs | 1280x 450x 270 mm | 18 Kgs |

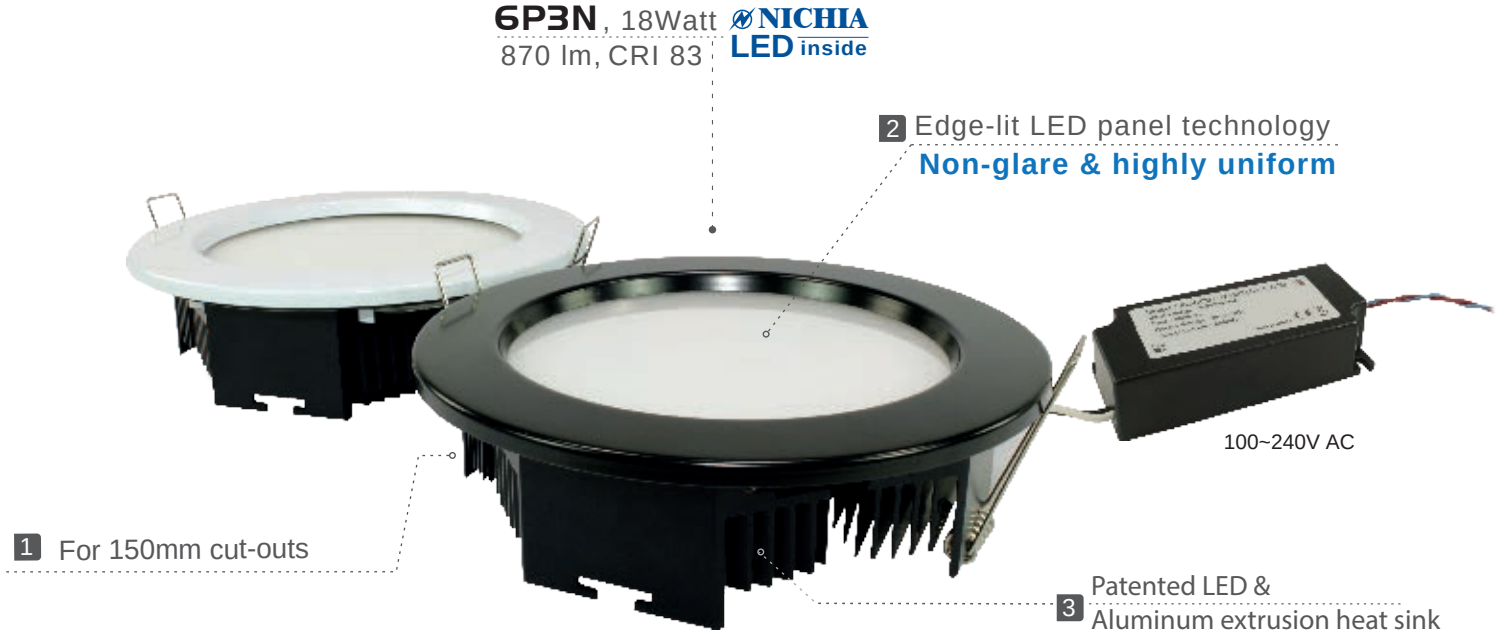


FRONTAND Technology http://www.frontand.com.tw

# LuxDL-6P3N (18W)

Indoor CE RoHS

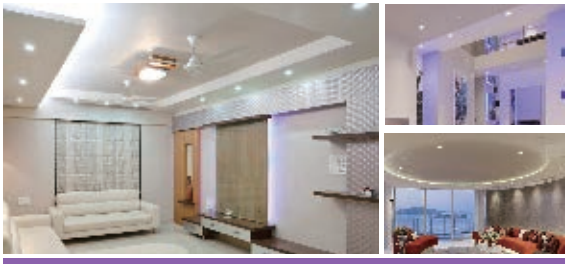
18W LED 6" Panel Type Recessed Down Light with Nichia LED Inside


6P3N, 18Watt
870 lm, CRI 83
NICHIA LED inside
2 Edge-lit LED panel technology
Non-glare & highly uniform
100~240V AC
1 For 150mm cut-outs
3 Patented LED & Aluminum extrusion heat sink

## ◦ Features

- Replacing 1x26W CFL or 60~75W halogen recessed down light
- Nichia LED inside
- Edge-lit panel type: Non-glare & Highly uniform
- Compact dimension and design
- Direct connection to 100~240V AC supply
- Easy installation with depth of 50mm
- CE, RoHS

## ◦ Applications



• Commercial lighting, general lighting, offices,factories, shops, hotel lighting, etc.

## ◦ Specifications

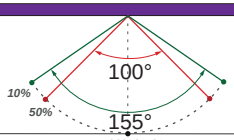
| Model | LED | Size | Type | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50%CBCP) | CBCP** | CRI | Voltage | Ring color |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6P3N-DW-S100-VACU 00 | | | | | 4600~5300K | 870 / 825 lm | | 320 | | | |
| 6P3N-NW-S100-VACU 00 | Nichia ⋆ 32 | 6” | Edge-lit | 18W | 3700~4250K | 870 / 825 lm | 100° | 320 | 83 | 100~240V AC | 00-Black |
| 6P3N-WW-S100-VACU 00 | | | | | 2850~3250K | 730 / 690 lm | | 270 | | | |
| 6P3N-DW-S100-VACU 90 | | | | | 4600~5300K | 870 / 825 lm | | 320 | | | |
| 6P3N-NW-S100-VACU 90 | Nichia ⋆ 32 | 6” | Edge-lit | 18W | 3700~4250K | 870 / 825 lm | 100° | 320 | 83 | 100~240V AC | 90-White |
| 6P3N-WW-S100-VACU 90 | | | | | 2850~3250K | 730 / 690 lm | | 270 | | | |

*** Lumens:** Cold at Tj=25°C , Hot at Tj=65°C ; variation is +/- 15% ; ****CBCP**: Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs ; **Warranty:** 2 years, limited

## ◦ Illumination Chart

@50% CBCP — Beam Angle
@10% CBCP — Field Angle

6P3N

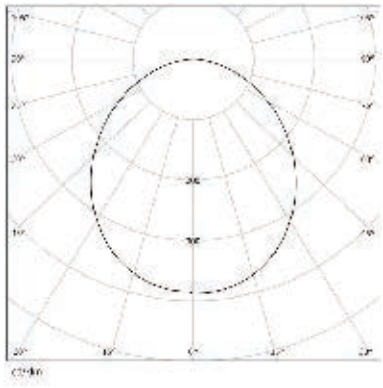



100%CBCP

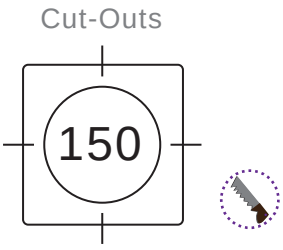
| | | |
|---|---|---|
| ○ Day White (4600~5300K) | 1m | 320 lux |
| | 2m | 88 lux |
| ● Nature White (3700~4250K) | 1m | 320 lux |
| | 2m | 88 lux |
| ● Warm White (2850~3250K) | 1m | 270 lux |
| | 2m | 75 lux |

* Typical Lux Variation is +/- 15% range

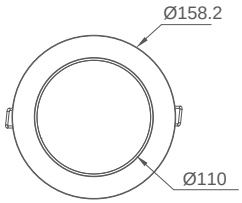
## ◦ Photometric

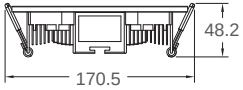


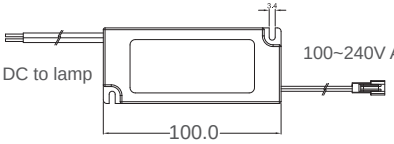
## ◦ Dimensions



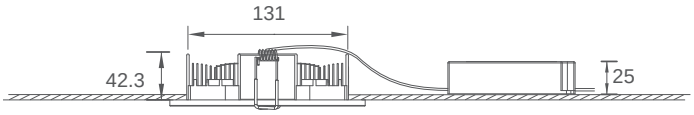

Unit: mm




Unit: mm
Lamp Weight: 425 g
Driver Weight: 155 g



## ◦ Ordering Code Guideline

EX: LDL-6P3N-WW-S100-VACU 00

F1 F2 F3 F4 F5 F6

| F1 | F2 | F3 | F4 | F5 | F6 |
|---|---|---|---|---|---|
| **Series** | **Type** | **Color(CCT)** | **Beam Angle** | **Voltage** | **Ring Color** |
| LDL: LuxDL Series | 6P3N: 6" Down Light, panel type-3N, (Nichia LED) | DW：4600~5300K<br>NW：3700~4250K<br>WW：2850~3250K | S100: 100 degree | VACU: 100~240V AC | 00 -Black<br>90 -White |

## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 268x 187x 72 mm | 760 g |
| **Carton** | 20 pcs | 554x 392x 401 mm | 16.2 Kgs |

# LuxDL-6D4I (17W)

Indoor CE RoHS

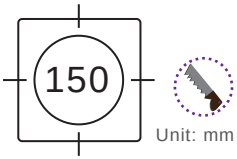
17W LED 6" Reflector type Recessed Down Light

new **6D4I** **CRI 80**

1350 lm | 17Watt

100~240VAC

1 For 150mm cut-outs



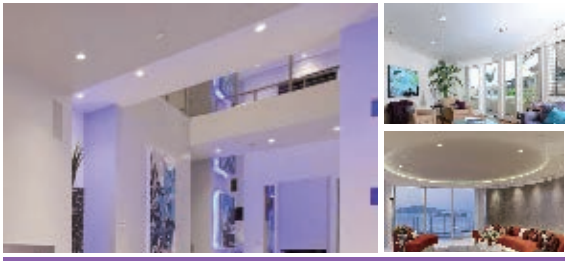
3 Easy installation

2 Diffused optical cover
Anti-glare design

## ◦ Features

- Replacing 1x23~26W CFL or 75~100W incandescent down light
- Diffused optical cover: Anti-glare design
- Output: up to 80 lm/W
- Light weight heat sink design
- Direct connection to 100~240VAC supply
- Easy and quick installation
- Lower maintenance cost
- CE, RoHS

## ◦ Applications



• Commercial lighting, general lighting, offices,factories, shops, hotel lighting, etc.

## ◦ Specifications

| Model | LED | Size | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50%CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| LDL-6D41-DW-S100-W17-VACU | | | | 4700~5300K | 1350 / 1280 lm | | 535 | | |
| LDL-6D41-NW-S100-W17-VACU | TW LED | 6” | 17W | 3700~4200K | 1350 / 1280 lm | 100° | 535 | 80 | 100~240V AC |
| LDL-6D41-WW-S100-W17-VACU | | | | 2900~3200K | 1230 / 1150 lm | | 485 | | |

*** Lumens:** Cold at Tj=25°C , Hot at Tj=62°C ; variation is +/- 15% ; ****CBCP**: Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs ; **Warranty:** 2 years, limited

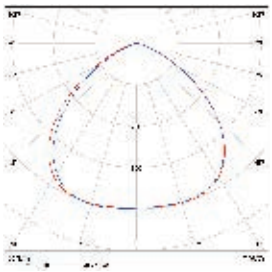
## ◦ Ordering Code Guideline

EX: LDL-6D41-DW-S100-W17-VACU
F1 F2 F3 F4 F5 F6

| F1 | F2 | F3 | F4 | F5 | F6 |
|---|---|---|---|---|---|
| **Series** | **Model Type** | **Color(CCT)** | **Beam Angle** | **Wattage** | **Voltage** |
| LDL: LuxDL Series | 6D41: 6" Down Light, Type-41(TW LED) | DW: 4700~5300K<br>NW: 3700~4200K<br>WW: 2900~3200K | S100: 100 degree | W17: 17W | VACU: 100~240V AC |

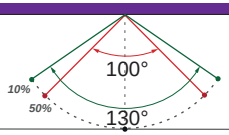
## ◦ Photometric

100 °



## ◦ Illumination Chart

@50% CBCP — Beam Angle
@10% CBCP — Field Angle

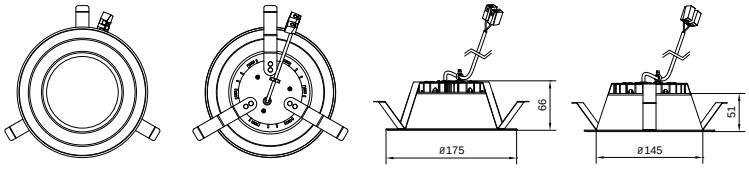



| | | 6D41 100%CBCP |
|---|---|---|
| ○ Day White (4700~5300K) | 1m | 535 lux |
| | 2m | 145 lux |
| ● Nature White (3700~4200K) | 1m | 535 lux |
| | 2m | 145 lux |
| ● Warm White (2900~3200K) | 1m | 485 lux |
| | 2m | 130 lux |

* Typical Lux Variation is +/- 15% range

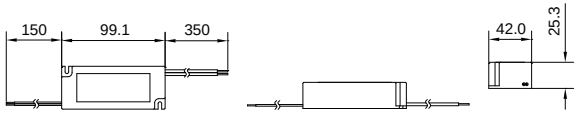
## ◦ Dimensions

### A 6D41




Unit：mm
Weight：400g

### B Power




Unit：mm
Weight：160g

## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 207x 181x 90 mm | 540 g |
| **Carton** | 24 pcs | 560x 430x 380 mm | 15 Kgs |

# LuxDL-5D3I (10W)

Indoor

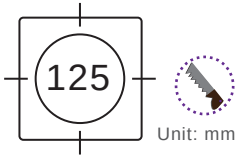
10W LED 5" Reflector type Recessed Down Light

new 5D3I CRI 80

830 lm 10Watt

100~240VAC

1 For 125mm cut-outs



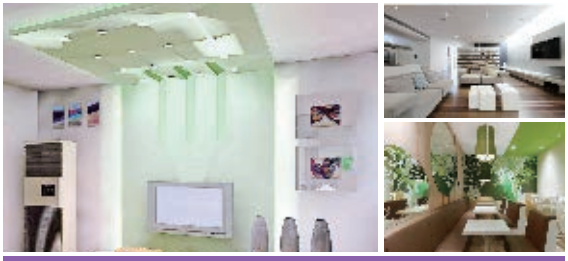

2 Diffused optical cover & Anti-glare surface design

3 Easy installation

## ◦ Features

- Replacing 1x12~15W CFL or 60~75W incandescent down light
- Diffused optical cover: Anti-glare design
- Output: up to 83 lm/W
- Light weight heat sink design
- Direct connection to 100~240VAC supply
- Easy and quick installation
- Lower maintenance cost
- CE, RoHS

## ◦ Applications



- Commercial lighting, general lighting, offices,factories, shops, hotel lighting, etc.

## ◦ Specifications

| Model | LED | Size | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50%CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| LDL-5D31-DW-S100-W10-VACU | | | | 4700~5300K | 830 / 770 lm | | 410 | | |
| LDL-5D31-NW-S100-W10-VACU | TW LED | 5" | 10W | 3700~4200K | 830 / 770 lm | 100° | 410 | 80 | 100~240V AC |
| LDL-5D31-WW-S100-W10-VACU | | | | 2900~3200K | 760 / 700 lm | | 375 | | |

*** Lumens:** Cold at Tj=25°C , Hot at Tj=75°C ; variation is +/- 15% ; ****CBCP**: Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs ; **Warranty:** 2 years, limited

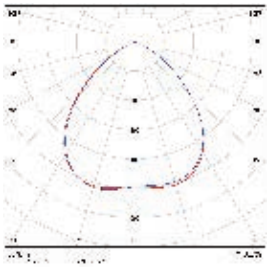
## ◦ Ordering Code Guideline

EX: LDL-5D31-DW-S100-W10-VACU
F1 F2 F3 F4 F5 F6

| F1 | F2 | F3 | F4 | F5 | F6 |
|---|---|---|---|---|---|
| **Series** | **Model Type** | **Color(CCT)** | **Beam Angle** | **Wattage** | **Voltage** |
| LDL: LuxDL Series | 5D31: 5" Down Light, Type-31(TW LED) | DW: 4700~5300K<br>NW: 3700~4200K<br>WW: 2900~3200K | S100: 100 degree | W10: 10W | VACU: 100~240V AC |

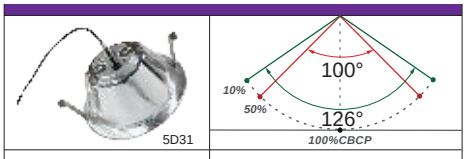
## ◦ Photometric

100 °



## ◦ Illumination Chart

@50% CBCP — Beam Angle
@10% CBCP — Field Angle

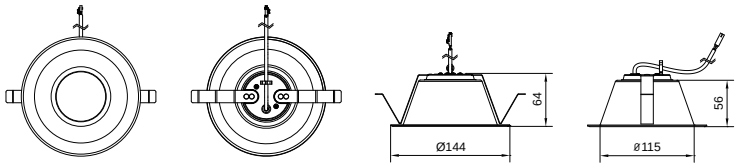



| | | 5D31 100%CBCP |
|---|---|---|
| ○ Day White (4700~5300K) | 1m | 410 lux |
| | 2m | 105 lux |
| ● Nature White (3700~4200K) | 1m | 410 lux |
| | 2m | 105 lux |
| ● Warm White (2900~3200K) | 1m | 375 lux |
| | 2m | 95 lux |

* Typical Lux Variation is +/- 15% range

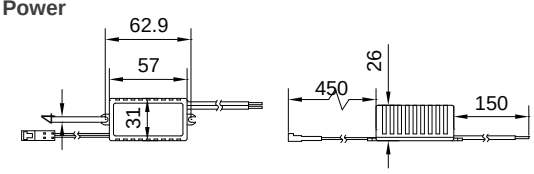
## ◦ Dimensions

**A 5D31**




Unit：mm
Weight：175g

**B Power**




Unit：mm
Weight：50g

## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 176x 150x 90 mm | 260 g |
| **Carton** | 36 pcs | 544x 466x 380 mm | 11.4 Kgs |

# LuxDL-4D3I (10W)

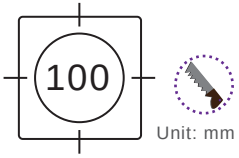
Indoor CE RoHS

10W LED 4" Reflector type Recessed Down Light

new **4D3I CRI 80**

680 lm, 10Watt

1 For 100mm cut-outs



100~240VAC

2 Diffused optical cover & Anti-glare surface design

3 Easy installation

## ◦ Features

- Replacing 1x10W CFL or 50W incandescent down light
- Diffused optical cover: Anti-glare design
- Light heat sink design
- Direct connection to 100~240VAC supply
- Easy and quick installation
- Lower maintenance cost
- CE, RoHS

## ◦ Applications

- Commercial lighting, general lighting, offices,factories, shops, hotel lighting, etc.

## ◦ Specifications

| Model | LED | Size | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50%CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| LDL-4D31-DW-S100-W10-VACU | | | | 4700~5300K | 680 / 620 lm | | 340 | | |
| LDL-4D31-NW-S100-W10-VACU | TW LED | 4" | 10W | 3700~4200K | 680 / 620 lm | 100° | 340 | 80 | 100~240V AC |
| LDL-4D31-WW-S100-W10-VACU | | | | 2900~3200K | 620 / 570 lm | | 310 | | |

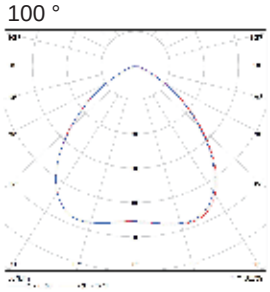
*** Lumens:** Cold at Tj=25°C , Hot at Tj=75°C ; variation is +/- 15% ; ****CBCP**: Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs ; **Warranty:** 2 years, limited

## ◦ Ordering Code Guideline

EX: LDL-4D31-DW-S100-W10-VACU
F1 F2 F3 F4 F5 F6

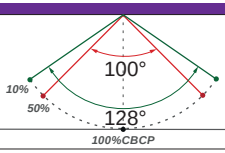
| F1 | F2 | F3 | F4 | F5 | F6 |
|---|---|---|---|---|---|
| **Series** | **Model Type** | **Color(CCT)** | **Beam Angle** | **Wattage** | **Voltage** |
| LDL: LuxDL Series | 4D31: 4" Down Light, Type-31(TW LED) | DW: 4700~5300K<br>NW: 3700~4200K<br>WW: 2900~3200K | S100: 100 degree | W10: 10W | VACU: 100~240V AC |

## ◦ Photometric




## ◦ Illumination Chart

@50% CBCP — Beam Angle
@10% CBCP — Field Angle

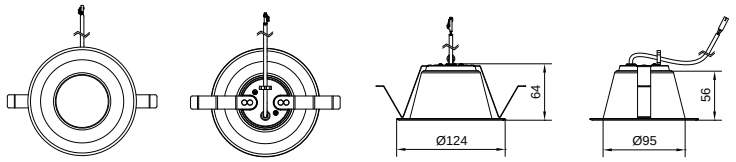



| | | 4D31 100%CBCP |
|---|---|---|
| ○ Day White (4700~5300K) | 1m | 340 lux |
| | 2m | 90 lux |
| ● Nature White (3700~4200K) | 1m | 340 lux |
| | 2m | 90 lux |
| ● Warm White (2900~3200K) | 1m | 310 lux |
| | 2m | 82 lux |

* Typical Lux Variation is +/- 15% range

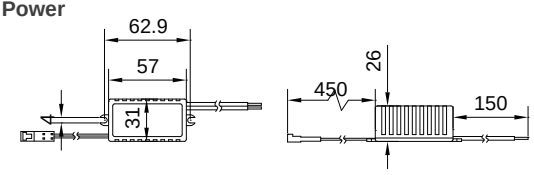
## ◦ Dimensions

**A 4D31**




Unit：mm
Weight：160g

**B Power**




Unit：mm
Weight：50g

## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 157x 131x 90 mm | 225 g |
| **Carton** | 48 pcs | 540x 486x 380 mm | 13 Kgs |

# LuxDL-3D3I (10W)

Indoor CE RoHS

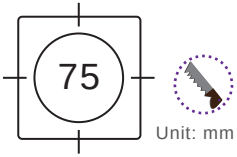
10W LED 3" Reflector type Recessed Down Light

new 3D3I CRI 80

620 lm 10Watt

100~240VAC

1 For 75mm cut-outs



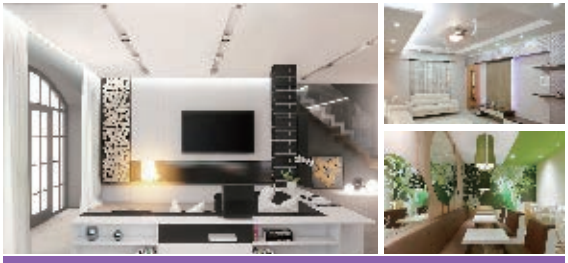
3 Easy installation

2 Diffused optical cover & Anti-glare surface design

## ◦ Features

- Replacing 1x10W CFL or 50W incandescent down light
- Diffused optical cover: Anti-glare design
- Light heat sink design
- Direct connection to 100~240VAC supply
- Easy and quick installation
- Lower maintenance cost
- CE, RoHS

## ◦ Applications



- Commercial lighting, general lighting, offices,factories, shops, hotel lighting, etc.

## ◦ Specifications

| Model | LED | Size | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50%CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| LDL-3D31-DW-S100-W10-VACU | | | | 4700~5300K | 620 / 570 lm | | 235 | | |
| LDL-3D31-NW-S100-W10-VACU | TW LED | 3" | 10W | 3700~4200K | 620 / 570 lm | 100° | 235 | 80 | 100~240V AC |
| LDL-3D31-WW-S100-W10-VACU | | | | 2900~3200K | 570 / 520 lm | | 215 | | |

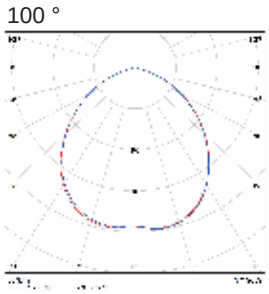
*** Lumens:** Cold at Tj=25°C , Hot at Tj=75°C ; variation is +/- 15% ; ****CBCP**: Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs ; **Warranty:** 2 years, limited

## ◦ Ordering Code Guideline

EX: LDL-3D31-DW-S100-W10-VACU
F1 F2 F3 F4 F5 F6

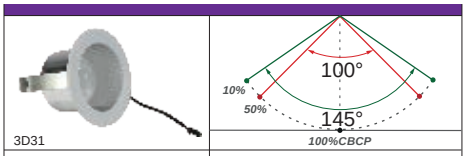
| F1 | F2 | F3 | F4 | F5 | F6 |
|---|---|---|---|---|---|
| **Series** | **Model Type** | **Color(CCT)** | **Beam Angle** | **Wattage** | **Voltage** |
| LDL: LuxDL Series | 3D31: 3" Down Light, Type-31(TW LED) | DW: 4700~5300K<br>NW: 3700~4200K<br>WW: 2900~3200K | S100: 100 degree | W10: 10W | VACU: 100~240V AC |

## ◦ Photometric




## ◦ Illumination Chart

@50% CBCP — Beam Angle
@10% CBCP — Field Angle

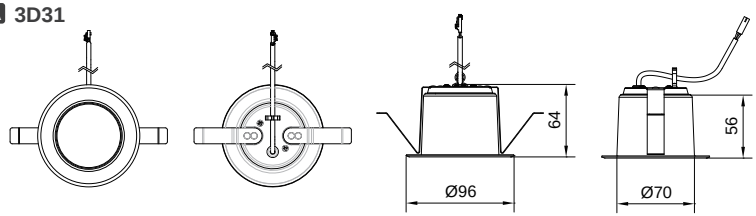



| | | |
|---|---|---|
| ○ Day White (4700~5300K) | 1m | 235 lux |
| | 2m | 65 lux |
| ● Nature White (3700~4200K) | 1m | 235 lux |
| | 2m | 65 lux |
| ● Warm White (2900~3200K) | 1m | 215 lux |
| | 2m | 60 lux |

* Typical Lux Variation is +/- 15% range

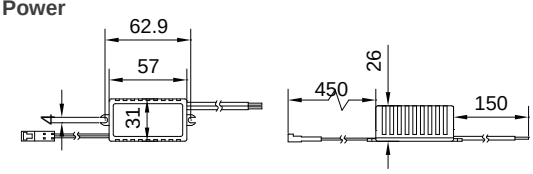
## ◦ Dimensions

**A 3D31**




Unit：mm
Weight：140g

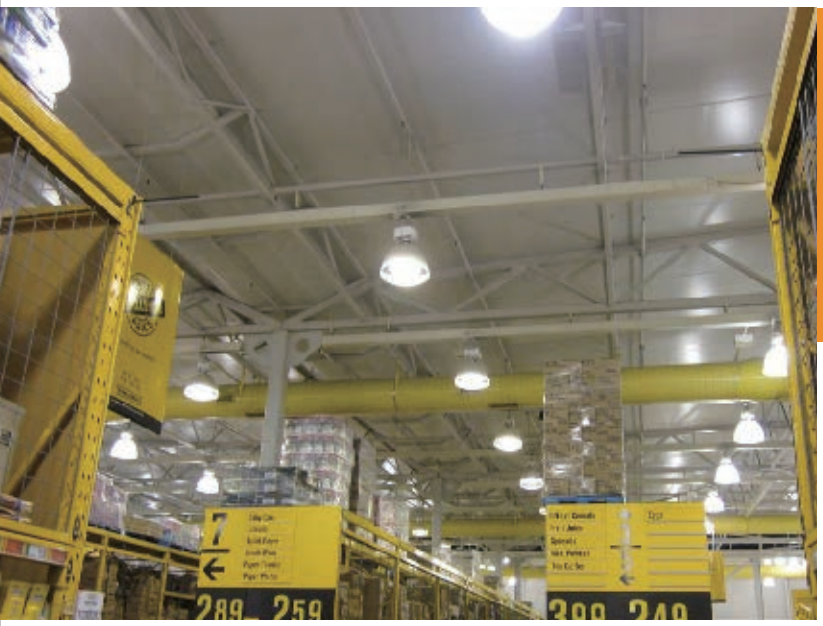
**B Power**




Unit：mm
Weight：50g

## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 128x 102x 90 mm | 190 g |
| **Carton** | 64 pcs | 530x 530x 380 mm | 14.5 Kgs |



# A-5
# Industry Lighting

High Power LED High bay light for industry lighting / ceiling application

## *Content*

LuxBY Series - High Bay Light

- FB2A-X1S90 (125W, 11000 lm)

# LuxBay-FB2A

Indoor CE RoHS

LED High Bay Light for Industrial Lighting

new **FB2A-XIS90** CREE XTE inside

125Watt, 11000 lm

IP65

## IP65 Waterproof
## High lumen output & Non-glare

1 Non-glare lens design with optimized light pattern **Beam Angle:** 90°

2 Total weight 4.1kg only

3 Uniform and high lux for 6m~10m height installation

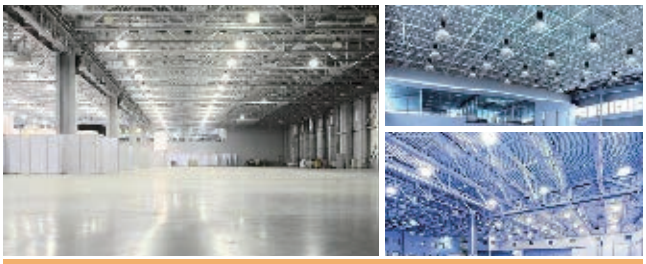
4 Reliable power design

5 Copper-core heat sink technology

### ◦ Features

- IP65 waterproof
- Reliable LED power design
- Good heat sink design, 4.1Kgs only
- >80% energy-saving and long life time
- Universal solution to all high-ceiling applications
- Glass lens: Non-glare
- No UV or IR irradiation
- Low maintenance costs
- CE, RoHS compliant

### ◦ Applications



• Suitable on variety of high ceiling applications, like warehouses, factory, industrial and commercial environments.

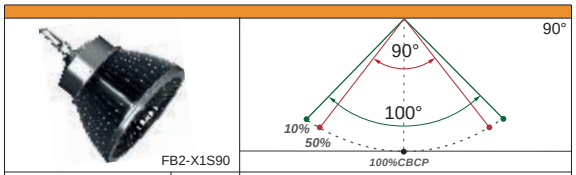
## ◦ Specifications

| Model | LED | Diameter / Length | Type | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|---|
| LBY-FB2A-X1S90-DW-W125-V277 | CREE XTE * 42 | ψ352 / 340mm | Fin | 125W | 5000~6500K | 11000 / 9500 lm | 90° | 6200 | 70 | 100~277V AC |

*** Lumens:** Cold at Tj=25°C, Hot at Tj=95°C; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited

## ◦ Illumination Chart

*@50% CBCP — Beam Angle*
*@10% CBCP — Field Angle*



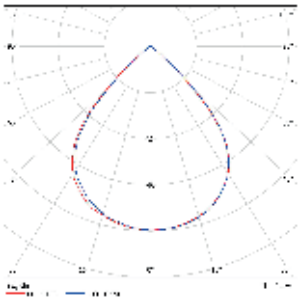

FB2-X1S90

| | | |
|---|---|---|
| ○ Day White (5000~6500K) | 1m | 6200 lux |
| | 2m | 1600 lux |
| | 3m | 700 lux |
| | 4m | 385 lux |
| | 5m | 245 lux |
| | 6m | 170 lux |

* Typical Lux Variation is +/- 15%

## ◦ Photometric

X1S90

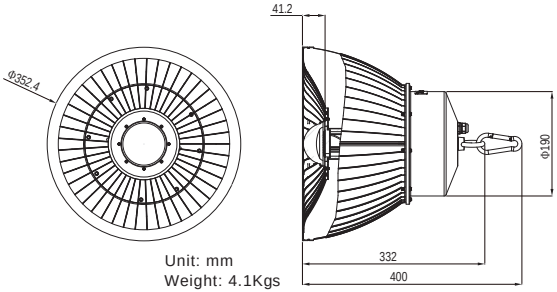


## ◦ Ordering Code Guideline

EX: LBY-FB2A-X1S90-DW-W125-V277
F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Series** | **Model Type** | **CCT** | **Watts** | **Voltage** |
| LBY: LuxBay Series | FB2A: Fin type 2A<br>X1: CREE XTE LED<br>S90: 90 degree | DW：5000~6500K | W125: 125W | V277: 100~277V AC |

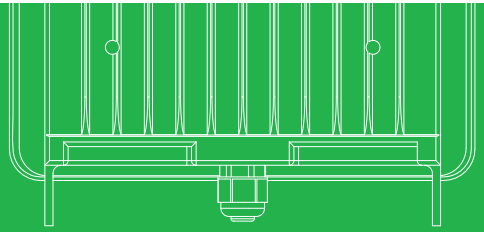
## ◦ Dimensions




Unit: mm
Weight: 4.1Kgs

## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 408x 408x 408 mm | 5.4 Kgs |



# Flood Lighting A-6

Outdoor High Power LED Flood / Spot Lamp

IP65

## *Content*

LuxBeacon Sereies

- LBCX3 - AC type (36W)
- LBCX3 - DC type (28W)

# LuxBeacon - AC Type

High Power LED Flooding/Spot Lamp for Outdoor Application

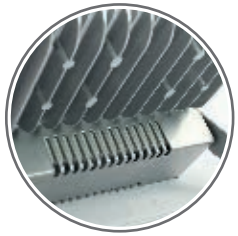
CE RoHS

**LBCX3-12L** , 36Watt
2000 lm

CREE XPE inside

1 Aluminum housing with waterproof and heat dissipation design

IP65



AC Type
100~240V AC

2 High output optical lens matrix
Various optical angles
- **Angle:** 8°/22°/42°/110°

## ◦ Features

- Waterproof with IP65
- Reliable thermal solution, constant current driving and short / over-voltage protection
- High output optical lens matrix 8°/ 22°/42°/110° angles available
- Universal input voltage (100~240V AC)
- CE, RoHS

## ◦ Applications

- Flooding/ spot light for architectural, billboard, mine, street, tunnel, parking lot, garden, wall washing, gas station... etc.

## ◦ Specifications

| Model | LED | LED # | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| LBCX3-DW-S08-12L-VACU | CREE XPE | 12-Leds | 36W | 5700~6350K | 2000 / 1680 lm | 8° | 41600 | 75 | 100~240V AC |
| LBCX3-DW-S22-12L-VACU | | | | | | 22° | 9400 | | |
| LBCX3-DW-S42-12L-VACU | | | | | | 42° | 3350 | | |
| LBCX3-DW-S110-12L-VACU | | | | | | 110° | 630 | | |
| LBCX3-WW-S08-12L-VACU | CREE XPE | 12-Leds | 36W | 2700~3050K | 1500 / 1260 lm | 8° | 31700 | 80 | 100~240V AC |
| LBCX3-WW-S22-12L-VACU | | | | | | 22° | 7150 | | |
| LBCX3-WW-S42-12L-VACU | | | | | | 42° | 2250 | | |
| LBCX3-WW-S110-12L-VACU | | | | | | 110° | 480 | | |

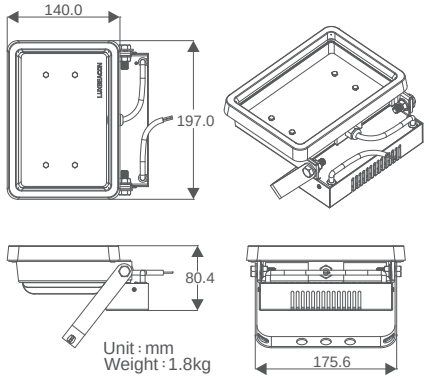
*** Lumens:** Cold at Tj=25°C , Hot at Tj=85°C ; variation is +/- 15% ; ****CBCP**: Center Beam Candle Power(cd), variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty** 2 years, limited

## ◦ Ordering Code Guideline

EX: LBCX3-DW-S08-12L-VACU
F1 F2 F3 F4 F5

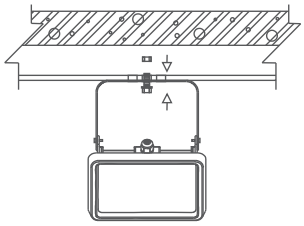
| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Model Type** | **Color(CCT)** | **Beam Angle** | **LED Number** | **Voltage** |
| LBCX3: Beacon Type X3 (CREE XPE) | DW：5700~6350K<br>WW：2700~3050K | S08： 8 degree<br>S22 : 22 degree<br>S42 : 42 degree<br>S110 : 110 degree | 12L: 12-Leds<br>6L: 6-Leds | VACU: 100~240V AC |

## ◦ Dimensions

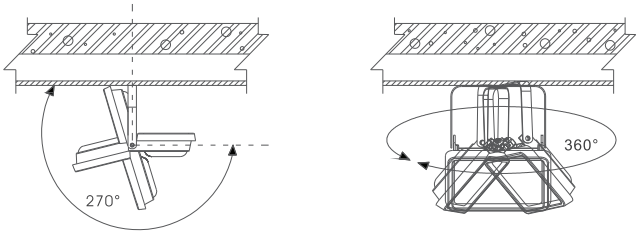



## ◦ Installation Guide

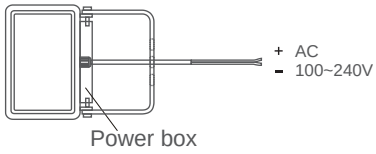
**Step 1:** Fix the LED lamp with the frame.



**Step 2:** Adjust the angle of the LED lamp vertically and horizontally, then fix it by tightening all screws properly



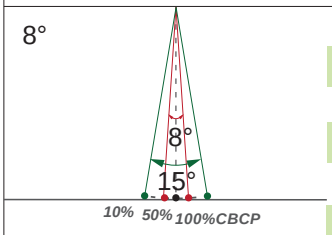
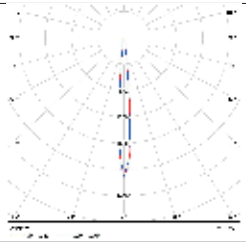
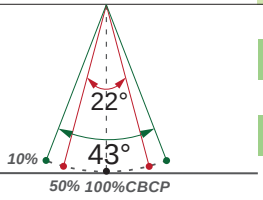
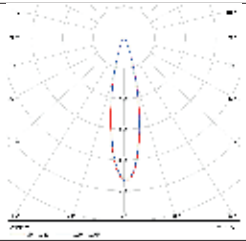
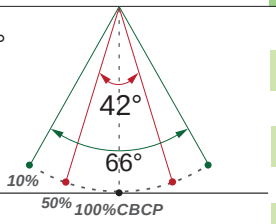
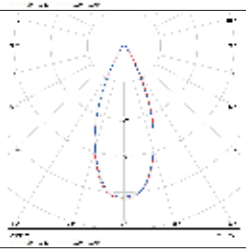
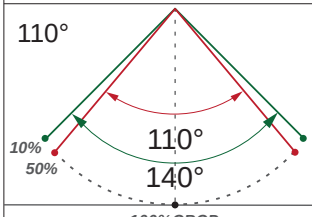
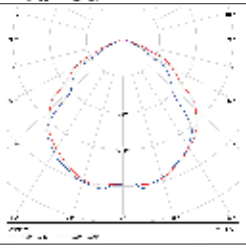

**Step 3:** Connect to AC (100~240V)




## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 302x 249x 100 mm | 2 Kgs |
| **Carton** | 5 pcs | 525x 320x 275 mm | 11 Kgs |

## ◦ *Illumination Chart and Photometric*

| Beam Angle / Field Angle<br> <br>100~240V | | Day White (5700~6350K) ○ | Warm White (2700~3050K) ● | Photometric |
|---|---|---|---|---|
| 8°<br>  | 1m | 41600 lux | 31700 lux |  |
| | 2m | 10400 lux | 7950 lux | |
| | 3m | 4630 lux | 3530 lux | |
| | 4m | 2600 lux | 1985 lux | |
| | 5m | 1670 lux | 1270 lux | |
| | 6m | 1160 lux | 880 lux | |
| 22°<br>  | 1m | 9400 lux | 7150 lux |  |
| | 2m | 2350 lux | 1790 lux | |
| | 3m | 1050 lux | 795 lux | |
| | 4m | 590 lux | 450 lux | |
| | 5m | 380 lux | 290 lux | |
| | 6m | 265 lux | 200 lux | |
| 42°<br>  | 1m | 3350 lux | 2250 lux |  |
| | 2m | 840 lux | 640 lux | |
| | 3m | 375 lux | 285 lux | |
| | 4m | 210 lux | 160 lux | |
| | 5m | 135 lux | 102 lux | |
| | 6m | 93 lux | 72 lux | |
| 110°<br>  | 1m | 630 lux | 480 lux |  |
| | 2m | 160 lux | 120 lux | |
| | 3m | 70 lux | 55 lux | |
| | 4m | 40 lux | 30 lux | |
| | 5m | 25 lux | 19 lux | |
| | 6m | 18 lux | 14 lux | |

* Typical Lux Variation is +/- 15% range

# LuxBeacon - DC Type

High Power LED Flooding/Spot Lamp for DC Application

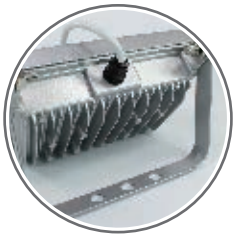
CE RoHS

**LBCX3-12L**, 28Watt
1800 lm

CREE XPE inside

1 Aluminum housing with waterproof and heat dissipation design

IP65



2 High output optical lens matrix
Various optical angles
- **Angle:** 8°/22°/42°/110°

**DC Type**

12V or 24V

## ◦ Features

- Waterproof with IP65
- Reliable thermal solution
- High output optical lens matrix and 8°/ 22°/ 42°/110° angles available
- 12V or 24V DC available
- CE, RoHS

## ◦ Applications

- Flooding/ spot light for architectural, billboard, mine, street, tunnel, parking lot, garden, wall washing, gas station... etc.

## ◦ Specifications

| Model | LED | LED # | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| LBCX3-DW-S08-12L-Vxx | CREE XPE | 12-Leds | 28W | 5700~6350K | 1800 / 1640lm | 8° | 37000 | 75 | V12: 12~13.5V<br>V24: 24~27V |
| LBCX3-DW-S22-12L-Vxx | | | | | | 22° | 8400 | | |
| LBCX3-DW-S42-12L-Vxx | | | | | | 42° | 3000 | | |
| LBCX3-DW-S110-12L-Vxx | | | | | | 110° | 560 | | |
| LBCX3-WW-S08-12L-Vxx | CREE XPE | 12-Leds | 28W | 2700~3050K | 1300 / 1200 lm | 8° | 28200 | 80 | V12: 12~13.5V<br>V24: 24~27V |
| LBCX3-WW-S22-12L-Vxx | | | | | | 22° | 6370 | | |
| LBCX3-WW-S42-12L-Vxx | | | | | | 42° | 2270 | | |
| LBCX3-WW-S110-12L-Vxx | | | | | | 110° | 430 | | |

*** Lumens:** Cold at Tj=25°C , Hot at Tj=85°C ; variation is +/- 15% ; ****CBCP**: Center Beam Candle Power (cd), variation is +/- 15%

The spec. is defined by automotive or battery powered type application. Ex. 12V is measured at 13.5V, 24V is measured at 27V. If used at 12V or 24V, the lumen will be 60%.

**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited

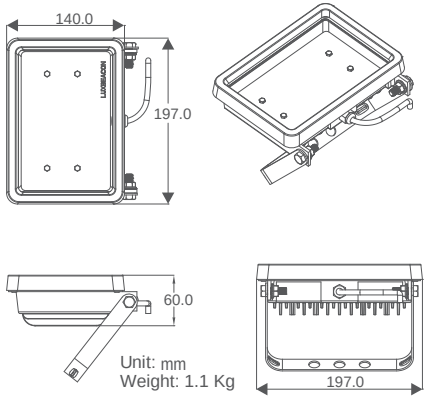
## ◦ Ordering Code Guideline

EX: LBCX3-DW-S08-12L-V12

F1 F2 F3 F4 F5

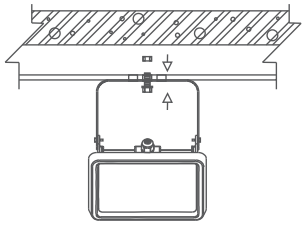
| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Model Type** | **Color(CCT)** | **Beam Angle** | **LED Number** | **Voltage** |
| LBCX3: Beacon Type X3 (CREE XPE) | DW：5700~6350K<br>WW：2700~3050K | S08： 8 degree<br>S22 : 22 degree<br>S42 : 42 degree<br>S110 : 110 degree | 12L: 12-Leds<br>6L: 6-Leds | V12: 12~13.5V<br>V24: 24~27V |

## ◦ Dimensions

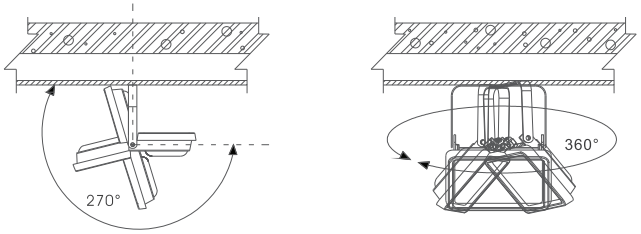



## ◦ Installation Guide

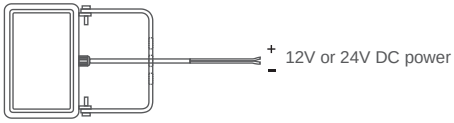
**Step 1:** Fix the LED lamp with the frame.



**Step 2:** Adjust the angle of the LED lamp vertically and horizontally, then fix it by tightening all screws properly



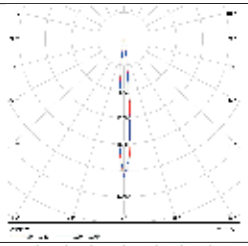
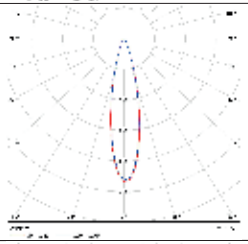
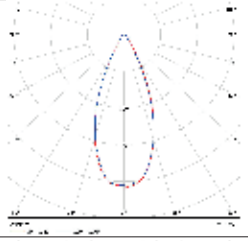
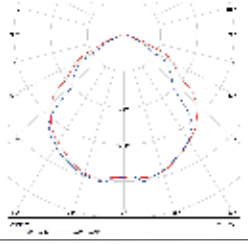

**Step 3:**




## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 302x 249x 100 mm | 1.5 Kgs |
| **Carton** | 5 pcs | 525x 320x 275 mm | 8.5 Kgs |

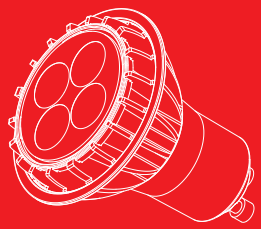
## ◦ *Illumination Chart and Photometric*

| Beam Angle / Field Angle<br>12V DC<br>24V DC | | Day White (5700~6350K) ○ | Warm White (2700~3050K) ● | Photometric |
|---|---|---|---|---|
| 8°<br>8°<br>15°<br>10% 50% 100%CBCP | 1m | 37000 lux | 28200 lux |  |
| | 2m | 9250 lux | 7050 lux | |
| | 3m | 4100 lux | 3150 lux | |
| | 4m | 2300 lux | 1760 lux | |
| | 5m | 1480 lux | 1130 lux | |
| | 6m | 1030 lux | 785 lux | |
| 22°<br>22°<br>43°<br>10%<br>50% 100%CBCP | 1m | 8400 lux | 6370 lux |  |
| | 2m | 2100 lux | 1600 lux | |
| | 3m | 935 lux | 710 lux | |
| | 4m | 525 lux | 400 lux | |
| | 5m | 340 lux | 255 lux | |
| | 6m | 235 lux | 180 lux | |
| 42°<br>42°<br>66°<br>10%<br>50% 100%CBCP | 1m | 3000 lux | 2270 lux |  |
| | 2m | 750 lux | 570 lux | |
| | 3m | 335 lux | 255 lux | |
| | 4m | 190 lux | 145 lux | |
| | 5m | 120 lux | 90 lux | |
| | 6m | 85 lux | 65 lux | |
| 110°<br>110°<br>140°<br>10%<br>50%<br>100%CBCP | 1m | 560 lux | 430 lux |  |
| | 2m | 140 lux | 110 lux | |
| | 3m | 62 lux | 48 lux | |
| | 4m | 35 lux | 27 lux | |
| | 5m | 22 lux | 17 lux | |
| | 6m | 16 lux | 12 lux | |

* Typical Lux Variation is +/- 15% range

## B. LED Retrofits

(B-1) LuxMR - MR spotlights
(B-2) LuxAR - AR spotlights
(B-3) LuxTube - T8 / T5 Tube
(B-4) LuxBB - Bulb A604
(B-5) LuxMini - Festoon



# LuxMR - MR spotlights B-I

LED lamp for replacing 35~50W halogen MR lamp

## *Content*


LuxMR Sereies

- MR16 (Retrofit)
- MR16 (Dimmable)
- GU10

# LuxMR-MR16 (Retrofit)

Indoor CE RoHS

LED Lamp for Replacing 50W Halogen MR16

**A MR16-A4** LIGHT BY LUXEON

**465 lm**, 7.5Watt

**Single 3-step Mac-Adam**

**B MR16-F4** new

**465 lm**, 7Watt

**>95% compatible with transformers**

1 Halogen-like accent beam

**Beam angle**

A4 type: 18° / 24° / 36° / 54°

F4 type: 22° / 32° /45°

2 Color consistency

Single bins at 2700K, 3000K

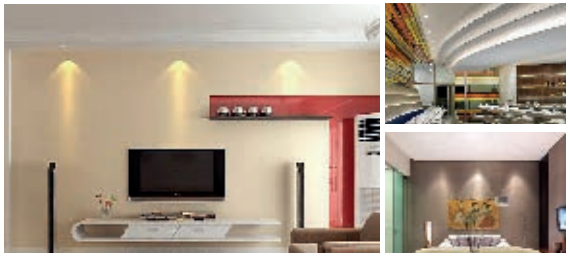
3 Identical dimension to MR16 halogen

Standard GU5.3 Base

## ◦ Features

- Replacing 50W halogen MR16 lamp
- Color consistency: Single color bin
- Various angles for options
- Patented thermal dissipation design
- >80% energy-saving and long life time
- No UV or IR irradiation
- CE, RoHS

## ◦ Applications



- Accent lighting in Retail Shops, Hotels corridors, Restaurant, Museums...etc

## ◦ Specifications

### A MR16-A4

| Model | LED | Base | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| LMR-16A4-827-S18-V12 | LUXEON A ∗ 4 | GU5.3 | 7.5W | 2700K | 465 / 435 lm | 18° | 3050 | 85 | 12V AC/DC |
| LMR-16A4-827-S24-V12 | | | | | | 24° | 2380 | | |
| LMR-16A4-827-S36-V12 | | | | | | 36° | 1100 | | |
| LMR-16A4-827-S54-V12 | | | | | | 54° | 590 | | |
| LMR-16A4-830-S18-V12 | | | | 3000K | 465 / 435 lm | 18° | 3050 | | |
| LMR-16A4-830-S24-V12 | | | | | | 24° | 2380 | | |
| LMR-16A4-830-S36-V12 | | | | | | 36° | 1100 | | |
| LMR-16A4-830-S54-V12 | | | | | | 54° | 590 | | |

### B MR16-F4

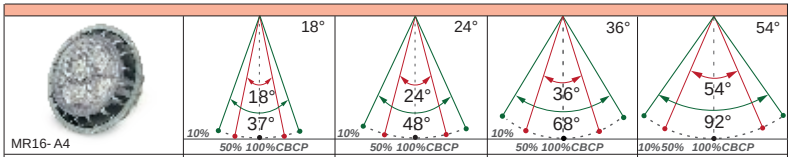
| Model | LED | Base | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| LMR-16F4-827-S22-V12 | TW LED ∗ 4 | GU5.3 | 7W | 2700K | 465 / 420 lm | 22° | 2200 | 80 | 12V AC/DC |
| LMR-16F4-827-S32-V12 | | | | | | 32° | 1150 | | |
| LMR-16F4-827-S45-V12 | | | | | | 45° | 670 | | |
| LMR-16F4-830-S22-V12 | | | | 3000K | 465 / 420 lm | 22° | 2200 | | |
| LMR-16F4-830-S32-V12 | | | | | | 32° | 1150 | | |
| LMR-16F4-830-S45-V12 | | | | | | 45° | 670 | | |

*** Lumens:** Cold at Tj=25°C , Hot at Tj=90°C ; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 25,000 hrs; **Warranty:** 2 years, limited
★ Please make sure the electronic transformer is compatible with the MR16.
★ **NOTE:** Not for use in totally enclosed fixture or in fixture without air flow.

## ◦ Illumination Chart

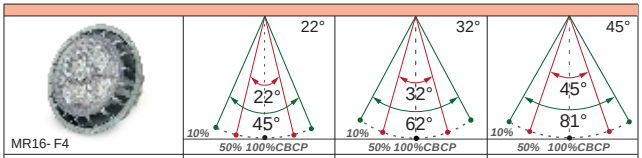
*@50% CBCP* — *Beam Angle*
*@10% CBCP* — *Field Angle*

### A MR16-A4




| | | 18° | 24° | 36° | 54° |
|---|---|---|---|---|---|
| Easy White (2700K/3000K) | 1m | 3050 lux | 2380 lux | 1100 lux | 590 lux |
| | 2m | 760 lux | 605 lux | 280 lux | 150 lux |
| | 3m | 340 lux | 270 lux | 120 lux | 65 lux |
| | 4m | 190 lux | 150 lux | 70 lux | 35 lux |

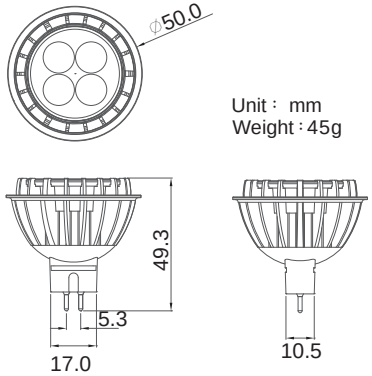
### B MR16-F4




| | | 22° | 32° | 45° |
|---|---|---|---|---|
| Easy White (2700K/3000K) | 1m | 2200 lux | 1150 lux | 670 lux |
| | 2m | 540 lux | 290 lux | 165 lux |
| | 3m | 245 lux | 125 lux | 75 lux |
| | 4m | 135 lux | 70 lux | 40 lux |

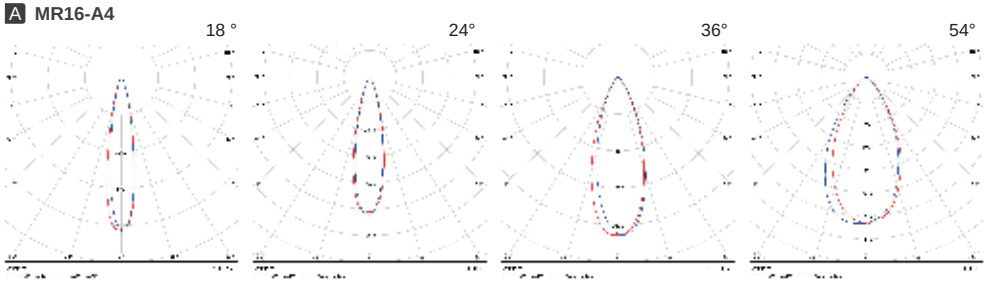
* Typical Lux Variation is +/- 15%

## ◦ Dimensions

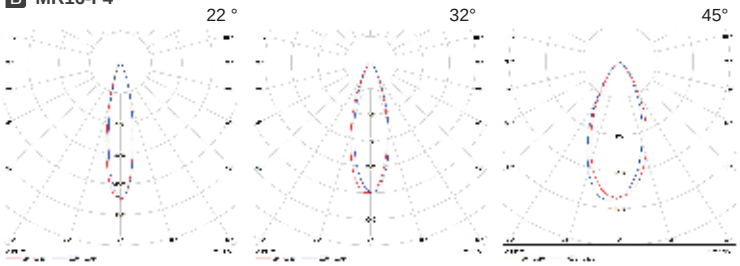


## ◦ Photometric

A MR16-A4




B MR16-F4




## ◦ Ordering Code Guideline

EX: LMR-16A4-830-S24-V12

F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Series** | **Model Type** | **CRI,CCT** | **Beam Angle** | **Voltage** |
| LMR: LuxMR Series | 16A4: MR16 Type A4 (LUXEON A)<br>16F4: MR16 Type F4 (TW LED) | 827：CRI >80, Single CCT- 2700K<br>830：CRI >80, Single CCT- 3000K | (A4 type)<br>S18: 18 degree<br>S24: 24 degree<br>S36: 36 degree<br>S54: 54 degree<br>(F4 type)<br>S22: 22 degree<br>S32: 32 degree<br>S45: 45 degree | V12:12V AC/DC |

## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 54 x 54 x 60 mm | 60g |
| **Middle Box** | 20 pcs | 296 x 231 x 67 mm | 1.4 Kgs |
| **Carton** | 200 pcs | 478 x 357 x 320 mm | 15 Kgs |

# LuxMR-MR16 (Dimmable)

Indoor CE RoHS

LED Lamp Paired with TRIAC Dimmable Driver for Replacing 50W Halogen MR16

**MR16-A4D**

**615 lm**, 12Watt

LIGHT BY LUXEON

1 Halogen-like accent beam

**Beam angle:** 18° / 24° / 36° / 54°

+

**Dimmable Solution**

Specific LED Driver (TRIAC Dimmable)

Input: 230VAC, 50/60 Hz

PSD-C070W10A1-V230

2 Color consistency

Single bins at 2700K, 3000K

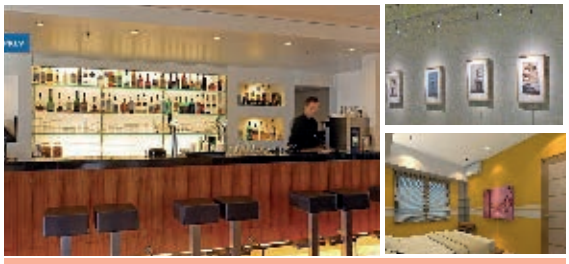
3 Identical dimension to MR16 halogen

Standard GU5.3 Base

## ◦ Features

- Replacing 50W halogen MR16 lamp
- TRIAC dimmable
- Color consistency: Single color bin
- Various angles (18°/24°/36°/54°)
- Patented thermal dissipation design
- Identical dimension to traditional halogen
- >80% energy-saving and long life time
- No UV or IR irradiation
- CE, RoHS

## ◦ Applications



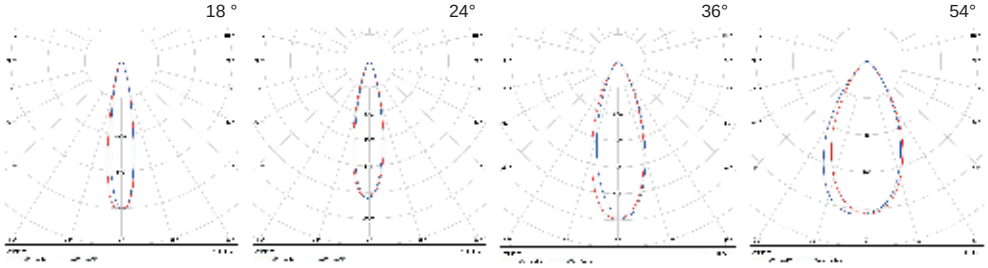
- Accent lighting in Retail Shops, Hotels corridors, Restaurant, Museums...etc

## ◦ Specifications

| Model | LED | Base | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| LMR-16A4D-827-S18-V230 | LUXEON A ⋆ 4 | GU5.3 | 12W | 2700K | 615 / 575 lm | 18° | 3950 | 85 | V230: 220~240VAC |
| LMR-16A4D-827-S24-V230 | | | | | | 24° | 3150 | | |
| LMR-16A4D-827-S36-V230 | | | | | | 36° | 1450 | | |
| LMR-16A4D-827-S54-V230 | | | | | | 54° | 760 | | |
| LMR-16A4D-830-S18-V230 | LUXEON A ⋆ 4 | GU5.3 | 12W | 3000K | 615 / 575 lm | 18° | 3950 | 85 | V230: 220~240VAC |
| LMR-16A4D-830-S24-V230 | | | | | | 24° | 3150 | | |
| LMR-16A4D-830-S36-V230 | | | | | | 36° | 1450 | | |
| LMR-16A4D-830-S54-V230 | | | | | | 54° | 760 | | |

*** Lumens:** Cold at Tj=25°C , Hot at Tj=85°C ; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited
★ NOTE: Not for use in totally enclosed fixture or in fixture without air flow.

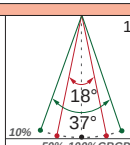
## ◦ Photometric

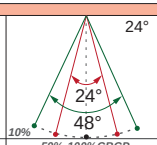


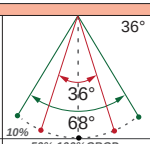

## ◦ Illumination Chart

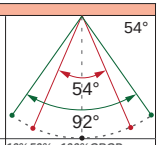
*@50% CBCP* — *Beam Angle*
*@10% CBCP* — *Field Angle*

MR16- A4D




| | | 18° | 24° | 36° | 54° |
|---|---|---|---|---|---|
| Easy White (2700K/3000K) | 1m | 3950 lux | 3150 lux | 1450 lux | 760 lux |
| | 2m | 990 lux | 800 lux | 370 lux | 190 lux |
| | 3m | 440 lux | 350 lux | 160 lux | 85 lux |
| | 4m | 245 lux | 200 lux | 90 lux | 50 lux |

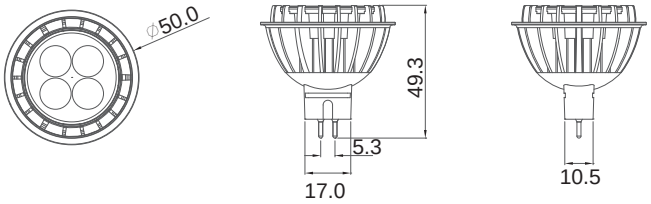
## ◦ Ordering Code Guideline

EX: LMR-16A4D-830-S24-V230
F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Series** | **Model Type** | **CRI,CCT** | **Beam Angle** | **Voltage** |
| LMR: LuxMR Series | 16A4D: MR16 Type A4D (LUXEON A) | 827：CRI >80, Single CCT- 2700K<br>830：CRI >80, Single CCT- 3000K | S18: 18 degree<br>S24: 24 degree<br>S36: 36 degree<br>S54: 54 degree | V230: 220~240VAC |

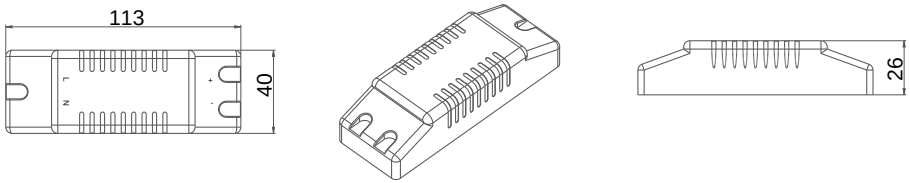
## ◦ Dimensions

### A MR16-A4D




Unit : mm
Weight : 34g

### B Dimmable Power




Unit : mm
Weight : 100g

## ◦ Package Information

### A MR16-A4D

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Middle Box** | 10 pcs | 340 x 155 x 60 mm | 520g |
| **Carton** | 150 pcs | 478 x 357 x 320 mm | 8.8 Kgs |

### B Dimmable Power

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 116 x 42 x 28 mm | 100g |
| **Carton** | 100 pcs | 310 x 245 x 240 mm | 11.5 Kgs |

### C MR16-A4D Kit (incl. dimmable power)

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 set | 130 x 109 x 55 mm | 190g |
| **Carton** | 60 pcs | 596 x 356 x 296 mm | 12.4 Kgs |

# LuxMR-GUIO (7W)

Indoor CE RoHS

LED Lamp for Replacing 35~50W Halogen GU10

new **GUIO-F4** **CRI-80**

**440 lm** 7Watt

**IEC standard size for true replacement**

1 Halogen-like accent beam
- **Beam angle:** 22° / 32° / 45°

2 Color consistency
Single bins at 2700K/3000K

3 Reliable Power Inside

4 Standard GU10 Base

## ◦ Features

- Replacing 35~50W halogen GU10 lamp
- IEC standard dimension
- Color consistency: Single color bin
- Beam angle: 22°/32°/45°
- Reliable power design
- >80% energy-saving and long life time
- No UV or IR irradiation
- CE, RoHS

## ◦ Applications

- Accent lighting in Retail Shops, Hotels corridors, Restaurant, Museums...etc

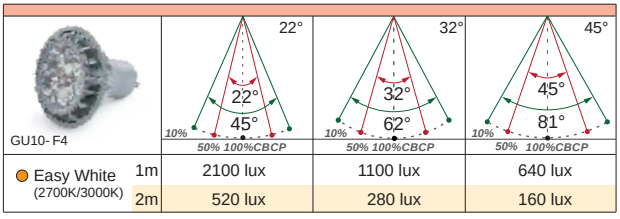
## ◦ Specifications

| Model | LED | Base | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| LMR-GU10F4-827-S22-VACU | | | | | | 22° | 2100 | | |
| LMR-GU10F4-827-S32-VACU | TW LED | GU10 | 7W | 2700K | 440 / 400 lm | 32° | 1100 | 80 | 100~240V AC |
| LMR-GU10F4-827-S45-VACU | | | | | | 45° | 640 | | |
| LMR-GU10F4-830-S22-VACU | | | | | | 22° | 2100 | | |
| LMR-GU10F4-830-S32-VACU | TW LED | GU10 | 7W | 3000K | 440 / 400 lm | 32° | 1100 | 80 | 100~240V AC |
| LMR-GU10F4-830-S45-VACU | | | | | | 45° | 640 | | |

*** Lumens:** Cold at Tj=20°C , Hot at Tj=80°C ; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited
★ NOTE: Not for use in totally enclosed fixture or in fixture without air flow.

## ◦ Illumination Chart

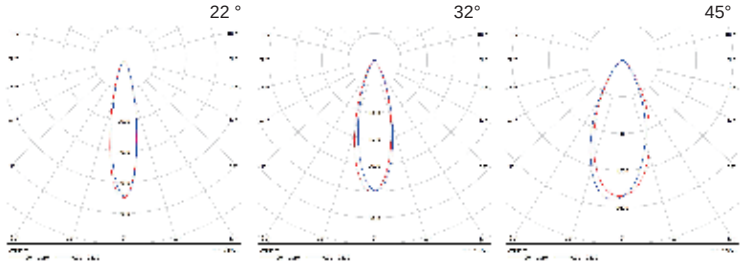
*@50% CBCP* — *Beam Angle*
*@10% CBCP* — *Field Angle*




| | | 22° | 32° | 45° |
|---|---|---|---|---|
| Easy White (2700K/3000K) | 1m | 2100 lux | 1100 lux | 640 lux |
| | 2m | 520 lux | 280 lux | 160 lux |

* Typical Lux Variation is +/- 15%

## ◦ Photometric

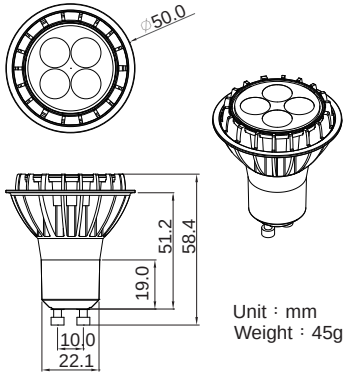



## ◦ Ordering Code Guideline

EX: LMR-GU10F4-830-S22-VACU
F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Series** | **Model Type** | **CRI,CCT** | **Beam Angle** | **Voltage** |
| LMR: LuxMR Series | GU10F4 : GU10 Type F4 (TW LED) | 827：CRI >80, Single CCT- 2700K<br>830：CRI >80, Single CCT- 3000K | S22: 22 degree<br>S32: 32 degree<br>S45: 45 degree | VACU: 100~240V |

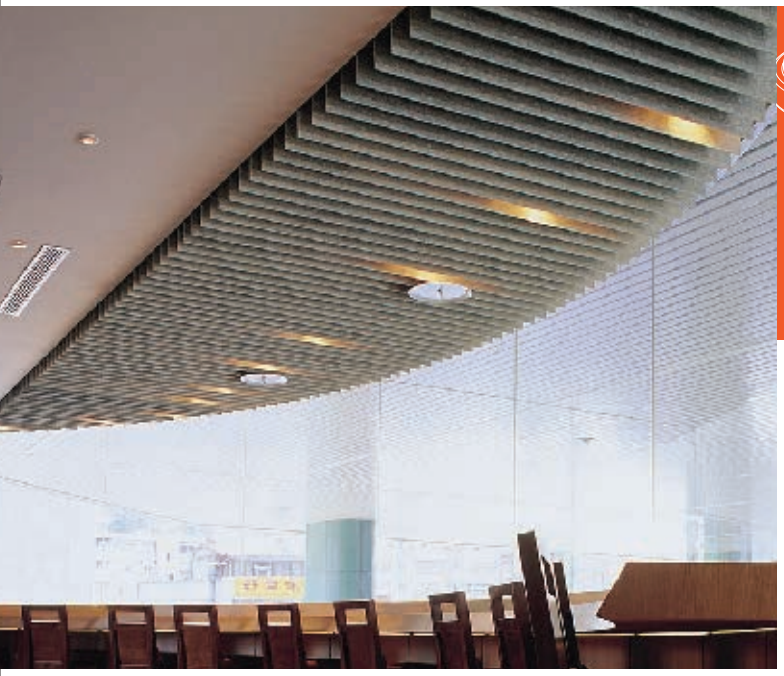
## ◦ Dimensions

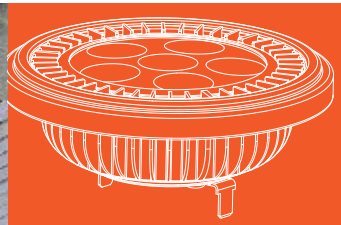



Unit：mm
Weight：45g

## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 51 x 51 x 62 mm | 65 g |
| **Middle Box** | 12 pcs | 213 x 157 x 66 mm | 0.9 Kgs |
| **Carton** | 120 pcs | 430 x 337 x 204 mm | 10 Kgs |





# LuxAR - AR spotlights B-2

LED lamp for replacing 35~75W halogen AR lamp

## *Content*

LuxAR Sereies

- AR70
- AR111
- F111

# LuxAR-AR70

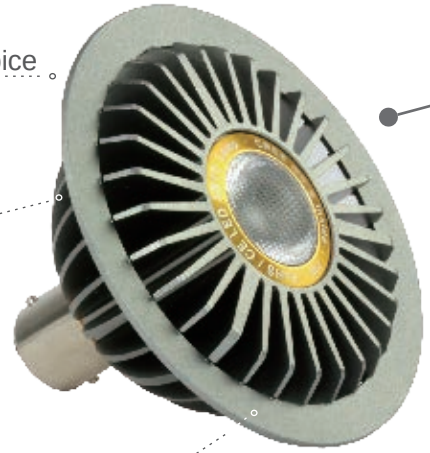
Indoor CE RoHS

LED Lamp for Replacing 35W~50W Halogen AR70

**AR70-M3**

6.5Watt, 370lm

CREE XML inside



Standard BA15D Socket

1 24° / 36° Beam angles for choice

2 Maximized fin area & Reliable driver

3 Identical profile for retrofit

4 Color consistency

EasyWhite™ bins at 2700K / 3000K

## ◦ Features

- Replacing 35W ~ 50W halogen AR70 lamp
- Color consistency: CREE XM-L EasyWhite™ LED inside
- Various optical lens design for selection
- Reliable power design
- >80% energy-saving and long life time
- No UV or IR irradiation
- CE, RoHS

## ◦ Applications

- Commercial lighting, accent light, spot light, track lighting, recessed lighting...etc.

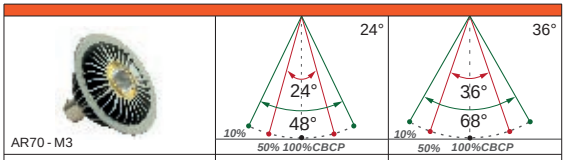
## ◦ Specifications

| Model | LED | Base | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| 70M3-827-S24-V12<br>70M3-827-S36-V12 | CREE XML *1 | BA15D | 6.5W | 2700K | 345 / 295 lm | 24°<br>36° | 1170<br>680 | 82 | 12V AC/DC |
| 70M3-830-S24-V12<br>70M3-830-S36-V12 | CREE XML *1 | BA15D | 6.5W | 3000K | 370 / 315 lm | 24°<br>36° | 1240<br>720 | 82 | 12V AC/DC |

*** Lumens:** Cold at Tj=25°C, Hot at Tj=85°C; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C(non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited
★NOTE: Not for use in totally enclosed fixture or in fixture without air flow.

## ◦ Illumination Chart

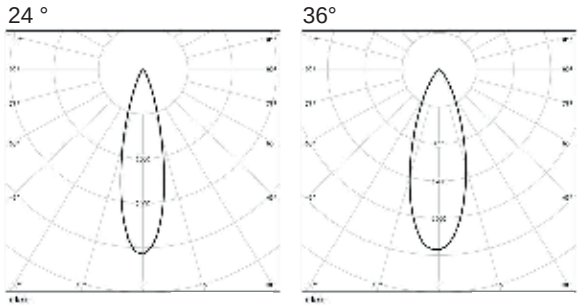
@ 50% CBCP — Beam Angle
@ 10% CBCP — Field Angle




| | | | |
|---|---|---|---|
| Easy White (2700K) | 1m | 1170 lux | 680 lux |
| | 2m | 290 lux | 170lux |
| Easy White (3000K) | 1m | 1240 lux | 720 lux |
| | 2m | 310 lux | 180 lux |

* Typical Lux Variation is +/- 15%

## ◦ Photometric

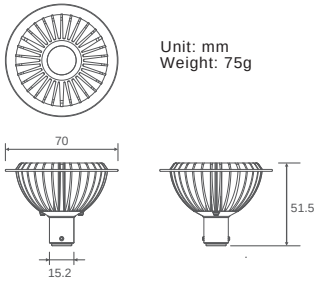



## ◦ Ordering Code Guideline

EX: LAR-70M3-827-S24-V12
F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| Series | Model Type | CRI,CCT | Beam Angle | Voltage |
| LAR:LuxAR Series | 70M3: AR70 Type M3 | 827：CRI> 80, Easy White 2700K<br>830：CRI> 80, Easy White 3000K | S24: 24 degree<br>S36: 36 degree | V12: 12V AC / DC |

## ◦ Dimensions




## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pcs | 75x 75x 59 mm | 95 g |
| **Middle Box** | 20 pcs | 396x 308x 63 mm | 2.2 Kgs |
| **Carton** | 120 pcs | 426x 336x 422 mm | 13.8 Kgs |

# LuxAR-ARIII (15W)

Indoor

LED Lamp for Replacing 75W Halogen AR111

new

**ARIII-X2A** 15Watt
12V AC / DC | 860 lm

CREE XBD inside

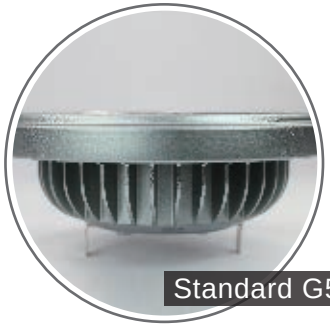
**Broadly compatible with electronic transformers**

3 Identical fixture ring for retrofit installation

4 Reliable LED driver inside

1 Halogen-like accent beam
- **Beam angle:** 16° / 24°

2 Tight color control
2700K / 3000K available

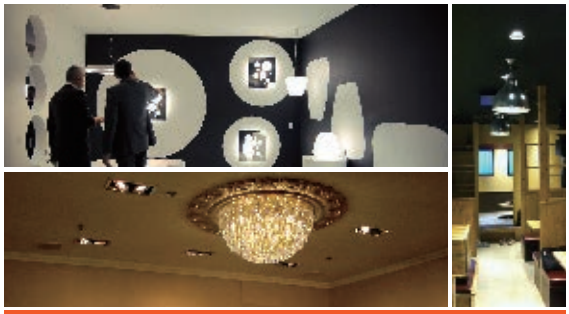


Standard G53 Base

## ◦ Features

- Broadly compatible with electronic transformers (Transformers compatibility list available upon request)
- Replacing 75W halogen AR111 lamp
- CREE X-lamp LEDx9pcs inside
- Tight color control of the chromaticity range
- Provide halogen-like accent beam: 16°/ 24°
- >80% energy saving and long life time
- No UV or IR irradiation
- CE, RoHS certified

## ◦ Applications



- Shop lighting, Commercial lighting, Hotel / Restaurant lighting, ...etc.

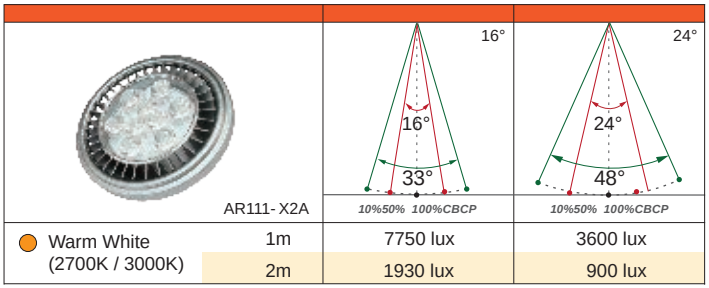
## ◦ Specifications

| Model | LED | Base | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| 111X2A-827-S16-V12<br>111X2A-827-S24-V12 | CREE XBD＊1 | G53 | 15W | 2700K | 860 / 780 lm | 16°<br>24° | 7750<br>3600 | 80 | 12V AC/DC |
| 111X2A-830-S16-V12<br>111X2A-830-S24-V12 | CREE XBD＊1 | G53 | 15W | 3000K | 860 / 780 lm | 16°<br>24° | 7750<br>3600 | 80 | 12V AC/DC |

*** Lumens:** Cold at Tj=25°C, Hot at Tj=85°C; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited
★NOTE: Not for use in totally enclosed fixture or in fixture without air flow.

## ◦ Illumination Chart

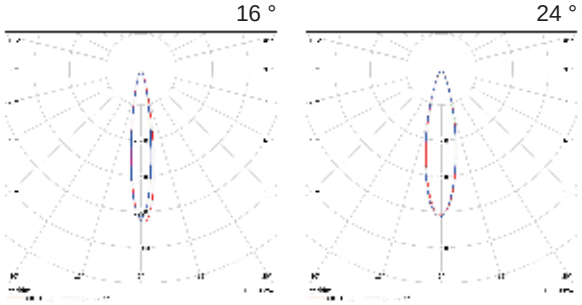
*@50% CBCP — Beam Angle*
*@10% CBCP — Field Angle*




| | AR111- X2A | 10%50% 100%CBCP | 10%50% 100%CBCP |
|---|---|---|---|
| Warm White (2700K / 3000K) | 1m | 7750 lux | 3600 lux |
| | 2m | 1930 lux | 900 lux |

* Typical Lux Variation is +/- 15%

## ◦ Photometric

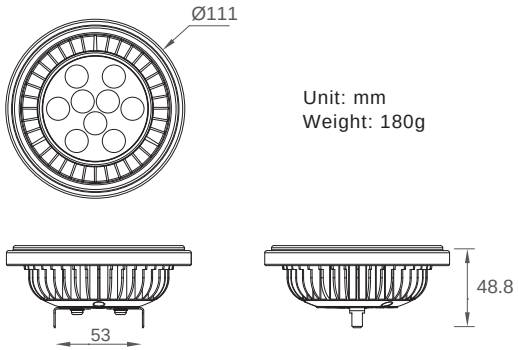



## ◦ Ordering Guide

EX: LAR-111X2A-827-S16-V12
F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| Series | Model Type | Color(CCT) | Beam Angle | Voltage |
| LAR:LuxAR Series | 111X2A: AR111 Type X2A | 827：CRI >80, Single CCT- 2700K<br>830：CRI >80, Single CCT- 3000K | S16: 16 degree<br>S24: 24 degree | V12: 12V AC / DC |

## ◦ Dimensions




Unit: mm
Weight: 180g

## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 134 x 134 x 64 mm | 275 g |
| **Carton** | 40 pcs | 596 x 356 x 296 mm | 12.2 Kgs |

# LuxAR-ARIII (13W)

Indoor CE RoHS

LED Lamp for Replacing 50W Halogen AR111

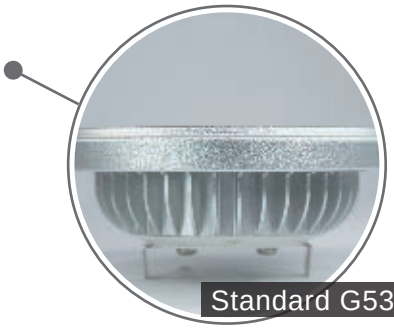
**ARIII-HIA**, 13Watt
12V AC / DC
710 lm

**Semileds**
LED inside

**Broadly compatible with electronic transformers**

3 Reliable LED driver inside

1 18° / 32° Beam Angles



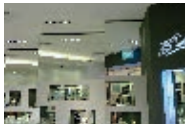
Standard G53 Base

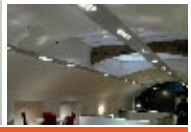
2 Identical fixture ring for retrofit installation

## ◦ Features

- Broadly compatible with electronic transformers (Transformers compatibility list available upon request)
- Replacing 50W halogen AR111 lamp
- 18° and 32° beam angles, provide lighting flexibility
- >80% energy saving and long life time
- No UV or IR irradiation
- CE, RoHS certified

## ◦ Applications





• Commercial lighting, accent light, spot light, indoor lighting, track lighting, recessed 5" lighting...etc.

## ◦ Specifications

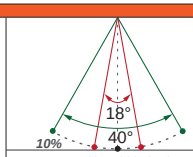
| Model | LED | Base | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| 111H1A-DW-S18-V12<br>111H1A-DW-S32-V12 | Semileds LED＊6 | G53 | 13W | 5300~6000K | 710 / 660 lm | 18°<br>32° | 4650<br>2500 | 70 | 12V AC/DC |
| 111H1A-NW-S18-V12<br>111H1A-NW-S32-V12 | Semileds LED＊6 | G53 | 13W | 3700~4300K | 640 / 600 lm | 18°<br>32° | 4100<br>2250 | 75 | 12V AC/DC |
| 111H1A-WW-S18-V12<br>111H1A-WW-S32-V12 | Semileds LED＊6 | G53 | 13W | 2700~3000K | 570 / 530 lm | 18°<br>32° | 3660<br>2000 | 80 | 12V AC/DC |

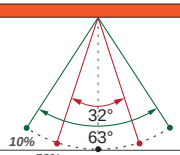
*** Lumens:** Cold at Tj=25°C, Hot at Tj=85°C; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20 ~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited
★NOTE: Not for use in totally enclosed fixture or in fixture without air flow.

## ◦ Illumination Chart

*@50% CBCP — Beam Angle*
*@10% CBCP — Field Angle*

AR111- H1A

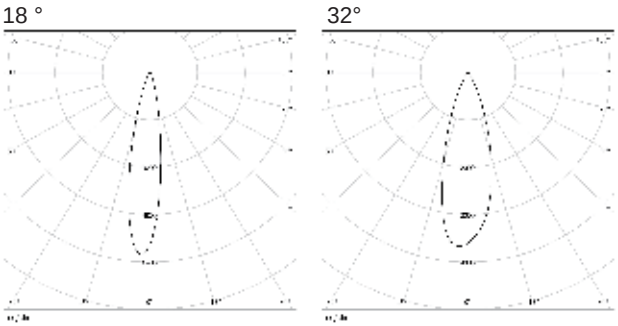


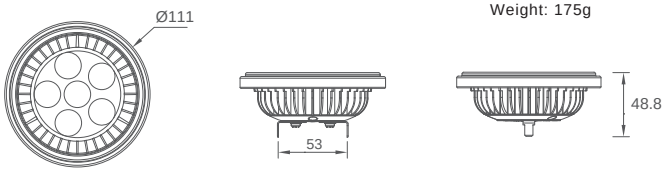

| | | 18° | 32° |
|---|---|---|---|
| ○ Day White (5300~6000K) | 1m | 4650 lux | 2500 lux |
| | 2m | 1150 lux | 635 lux |
| ○ Nature White (3700~4300K) | 1m | 4100 lux | 2250 lux |
| | 2m | 1035 lux | 570 lux |
| ○ Warm White (2700~3000K) | 1m | 3660 lux | 2000 lux |
| | 2m | 920 lux | 505 lux |

* Typical Lux Variation is +/- 15%

## ◦ Photometric




## ◦ Dimensions




Unit: mm
Weight: 175g

## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 134 x 134 x 64 mm | 247 g |
| **Carton** | 40 pcs | 596 x 356 x 296 mm | 11.5 Kgs |

## ◦ Ordering Code Guideline

EX: LAR-111H1A-WW-S32-V12
F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Series** | **Model Type** | **Color(CCT)** | **Beam Angle** | **Voltage** |
| LAR:LuxAR Series | 111H1A: AR111 Type H1A | DW：5300~6000K<br>NW：3700~4300K<br>WW：2700~3000K | S18: 18 degree<br>S32: 32 degree | V12: 12V AC / DC |

# LuxAR-FIIIH9 (19W)

Indoor CE RoHS

LED Lamp Paired with External Driver for Replacing 100W Halogen AR111

new FIIIH9
19Watt 950 lm
Light by: SEMILEDS

1 Beam Angle
14° / 24° / 32°

2 Identical fixture ring for
AR111 retrofit installation

3 Tight color control
Available at 3000K / 5700K

Specified Driver Required
(560mA, 23~33V c.c. driver)

## Super High Lumen for Commercial Lighting
## -Replacing 100W halogen application

### ◦ Features

- Replacing 100W halogen application
- Identical fixture ring for AR111 retrofit installation
- Tight color control
- Beam Angle: 14° / 24° / 32°
- >80% energy saving and long life time
- No UV or IR irradiation
- CE, RoHS compliant

### ◦ Applications

- Commercial light, shop lighting, hotel/restaurant lighting, residential track light, recessed light application..., etc.

## ◦ Specifications

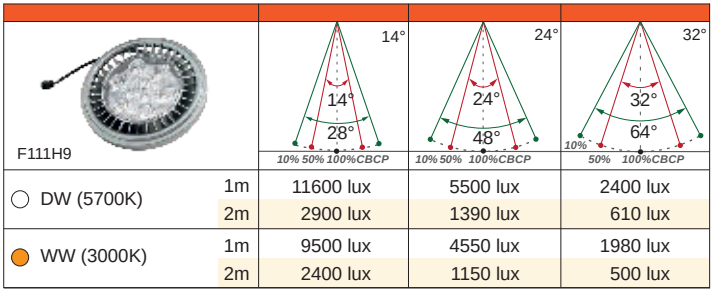
### ◉ Light Engine-F111(19W)

| Model | Diameter | LED | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| F111H9-33W19-757-S14-VACU | φ111 mm | Semileds LED ⋆9 | 19W (power included) | 5700K | 1160 / 980 lm | 14° | 11600 | 70 | 100~240V AC |
| F111H9-33W19-757-S24-VACU | | | | | | 24° | 5500 | | |
| F111H9-33W19-757-S32-VACU | | | | | | 32° | 2400 | | |
| F111H9-33W19-830-S14-VACU | | | | 3000K | 950 / 860 lm | 14° | 9500 | 80 | |
| F111H9-33W19-830-S24-VACU | | | | | | 24° | 4550 | | |
| F111H9-33W19-830-S32-VACU | | | | | | 32° | 1980 | | |

*** Lumens:** Cold at Tj=25°C, Hot at Tj=86°C; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited
★NOTE: Not for use in totally enclosed fixture or in fixture without air flow.

## ◦ Illumination Chart

*@50% CBCP —— Beam Angle*
*@10% CBCP —— Field Angle*

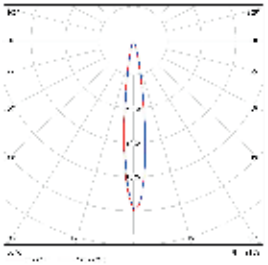



| | | 14° | 24° | 32° |
|---|---|---|---|---|
| ○ DW (5700K) | 1m | 11600 lux | 5500 lux | 2400 lux |
| | 2m | 2900 lux | 1390 lux | 610 lux |
| ● WW (3000K) | 1m | 9500 lux | 4550 lux | 1980 lux |
| | 2m | 2400 lux | 1150 lux | 500 lux |

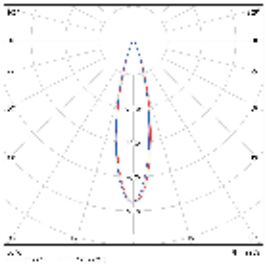
* Typical Lux Variation is +/- 15%

## ◦ Photometric

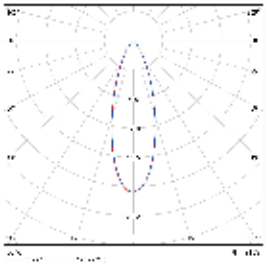
14 °



24 °



32 °



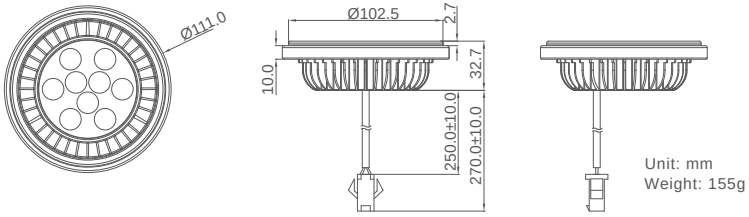
## ◦ Ordering Code Guideline

EX: F111H9-33W19-830-S14-VACU
F1 F2 F3 F4 F5

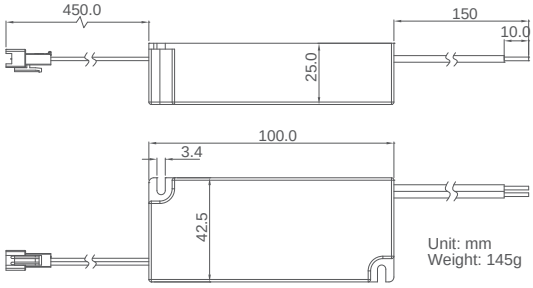
| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Model Type** | **Height, Watts** | **CRI, CCT** | **Beam Angle** | **Voltage** |
| F111: φ111 Light Engine<br>H9: Semileds LED *9pcs | 33W19: Height 33mm, 19Watts | 757: CRI Typ.70, DW 5700K<br>830: CRI Typ.80, WW 3000K | S14: 14 degree<br>S24: 24 degree<br>S32: 32 degree | 100~240V |

## ◦ Dimensions

### A F111H9




### B Power




## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 142x130x64 mm | 370 g |
| **Carton** | 40 pcs | 592x360x306 mm | 16 Kgs |

# LuxAR-FIIIN6 (8W)

Indoor CE RoHS

LED Lamp Paired with External Driver for Replacing 50W Halogen AR111

new FIIIN6
8Watt
580 lm
Light by: GENUINE NICHIA LED®

1 Beam Angle: 18°

2 Identical fixture ring for AR111 retrofit installation

3 Tight color control
Available at 3000K / 4000K

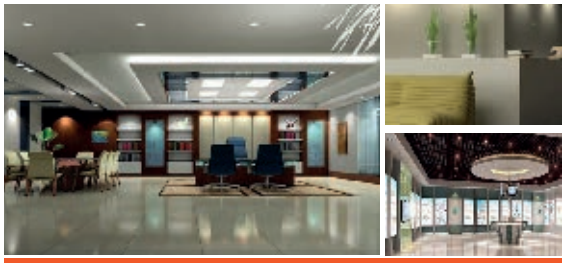
100~240VAC
Specified Driver Required
(180mA, 33~43V c.c. driver)

## Easy Installation for Commercial Lighting
## -Replacing 50W halogen application

### ◦ Features

- Replacing 50W halogen application
- Identical fixture ring for AR111 retrofit installation
- Tight color control
- Beam Angle: 18°
- >80% energy saving and long life time
- No UV or IR irradiation
- CE, RoHS compliant

### ◦ Applications



• Commercial light, shop lighting, hotel/restaurant lighting, residential track light, recessed light application..., etc.

## ◦ Specifications

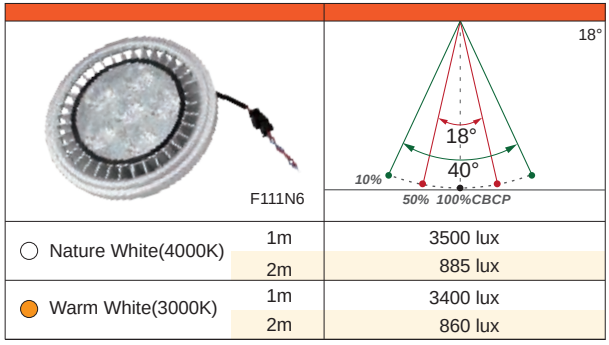
**◉ Light Engine-F111(8W)**

| Model | Diameter | LED | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| F111N6-33W8-840-S18-VACU | ψ111 mm | Nichia * 6 | 8W (power included) | 4000K | 600 / 570 lm | 18° | 3500 | 85 | 100~240V AC |
| F111N6-33W8-830-S18-VACU | | | | 3000K | 580 / 550 lm | | 3400 | 85 | |

*** Lumens:** Cold at Tj=25°C, Hot at Tj=55°C; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited
★ NOTE: Not for use in totally enclosed fixture or in fixture without air flow.

## ◦ Illumination Chart

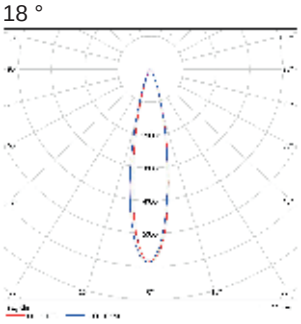
*@50% CBCP —— Beam Angle*
*@10% CBCP —— Field Angle*




| | | |
|---|---|---|
| ○ Nature White(4000K) | 1m | 3500 lux |
| | 2m | 885 lux |
| ● Warm White(3000K) | 1m | 3400 lux |
| | 2m | 860 lux |

* Typical Lux Variation is +/- 15%

## ◦ Photometric




## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 142x130x64 mm | 280 g |
| **Carton** | 40 pcs | 592x360x306 mm | 12.4 Kgs |

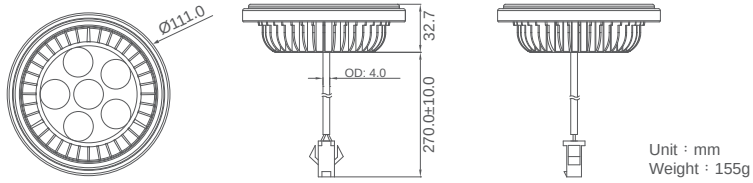
## ◦ Ordering Code Guideline

EX: F111N6-33W8-830-S18-VACU
F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Model Type** | **Height, Watts** | **CRI, CCT** | **Beam Angle** | **Voltage** |
| F111: φ111 Light Engine<br>N6: Nichia * 6pcs | 33W8: Height 33mm, 8Watts | 840: CRI Typ.85, Nature White 4000K<br>830: CRI Typ.85, Warm White 3000K | S18: 18 degree | 100~240V |

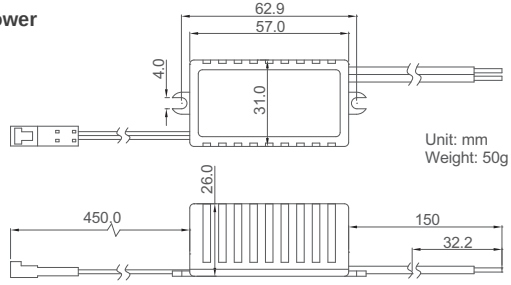
## ◦ Dimensions

**A F111N6**




Unit：mm
Weight：155g

**B Power**




Unit: mm
Weight: 50g

# LuxTube - Tube Light B-3

LED Tube light for replacing Fluorescence T8/T5

## *Content*


LuxTube Series

- T8
- T5 (w/external power)

# LuxTube-T8

Indoor CE RoHS

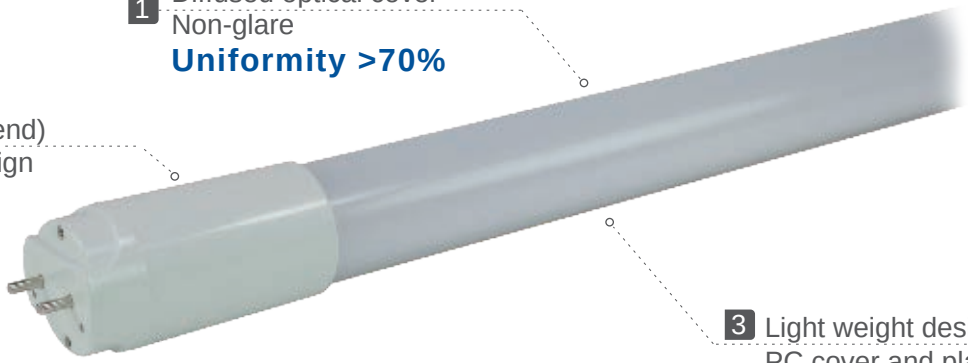
LED AC Tube for Replacing Fluorescence T8 Lamp

new **T84I** -100 ~ 240VAC
**>90 lm/W**

- 10W/2fts, 900 lm
- 20W/4fts, 1900 lm
- 23W/5fts, 2300 lm

1 Diffused optical cover
Non-glare
**Uniformity >70%**

2 Unilateral (one-end) power input design



3 Light weight design
PC cover and plastics ends

## ◦ Features

- Diffused optical cover, uniformity >70%
- Retrofit T8 fluorescent socket (G13 base)
- High efficacy, output >90 lm/W
- Low maintenance cost
- Available in 2fts, 4fts and 5fts
- CE, RoHS comliant

## ◦ Applications

• General lighting, parking lot lighting, factory lighting, aquirium lighting, show case, cove light, etc...

## ◦ Specifications

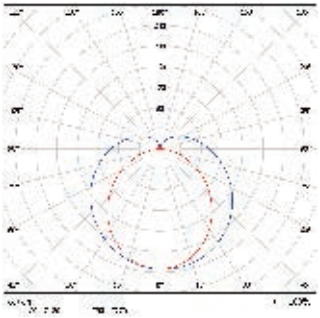
| Model | LED # | Base | Watts | CCT | Lumens* (Cold) | Beam Angle (@50% CBCP) | CBCP** | CRI | Length / Diameter | Cover | Voltage: VACU | Power Input |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T841-850-L580H-VACU-U | 48-Leds | G13 | 10W | 5000K | 900 lm | 158° | 233 | 80 | 580 / 28 mm | Heavy Diffused | 100~240V | U: Unilateral |
| T841-830-L580H-VACU-U | | | | 3000K | 800 lm | | 207 | | | | | |
| T841-850-L590H-VACU-U | | | | 5000K | 900 lm | | 233 | 80 | 590 / 28 mm | | | |
| T841-830-L590H-VACU-U | | | | 3000K | 800 lm | | 207 | | | | | |
| T841-850-L1198H-VACU-U | 96-Leds | G13 | 20W | 5000K | 1900 lm | 158° | 440 | 80 | 1205 / 28 mm | Heavy Diffused | 100~240V | U: Unilateral |
| T841-830-L1198H-VACU-U | | | | 3000K | 1700 lm | | 394 | | | | | |
| T841-850-L1500H-VACU-U | 126-Leds | G13 | 23W | 5000K | 2300 lm | 158° | 474 | 80 | 1505 / 28 mm | Heavy Diffused | 100~240V | U: Unilateral |
| T841-830-L1500H-VACU-U | | | | 3000K | 2100 lm | | 433 | | | | | |
| T841-850-L580H-VACU-B | 48-Leds | G13 | 10W | 5000K | 900 lm | 158° | 233 | 80 | 580 / 28 mm | Heavy Diffused | 100~240V | B: Bilateral |
| T841-830-L580H-VACU-B | | | | 3000K | 800 lm | | 207 | | | | | |
| T841-850-L590H-VACU-B | | | | 5000K | 900 lm | | 233 | 80 | 590 / 28 mm | | | |
| T841-830-L590H-VACU-B | | | | 3000K | 800 lm | | 207 | | | | | |
| T841-850-L1198H-VACU-B | 96-Leds | G13 | 20W | 5000K | 1900 lm | 158° | 440 | 80 | 1205 / 28 mm | Heavy Diffused | 100~240V | B: Bilateral |
| T841-830-L1198H-VACU-B | | | | 3000K | 1700 lm | | 394 | | | | | |
| T841-850-L1500H-VACU-B | 126-Leds | G13 | 23W | 5000K | 2300 lm | 158° | 474 | 80 | 1505 / 28 mm | Heavy Diffused | 100~240V | B: Bilateral |
| T841-830-L1500H-VACU-B | | | | 3000K | 2100 lm | | 433 | | | | | |

*** Lumens:** Cold at Tj=25°C; variation is +/- 15% ; ****CBCP:** Center Beam Candle Power, variation is +/- 15%
**Operating Temp.:** -20~40°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited

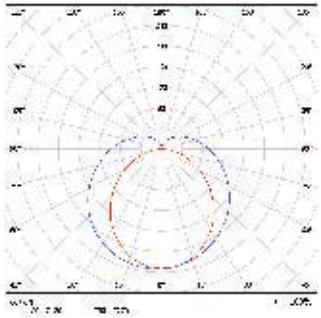
★ Length of 3ft and 8ft are available upon request
★ CCT 6500K and 4000K are available upon request
★ Bilateral (two-end) power input design is available upon request
★ **NOTE:** Not for use in totally enclosed fixture or in fixture without air flow

## ◦ Photometric

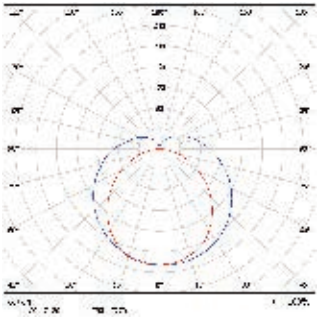
580/590mm



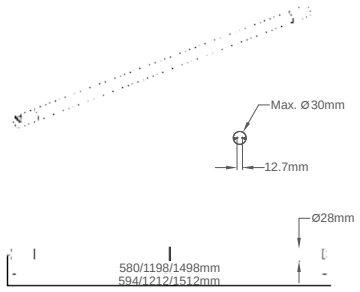
1198mm



1500mm

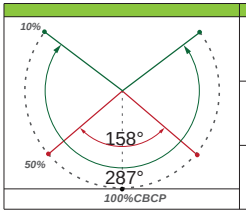


## ◦ Dimensions




## ◦ Illumination Chart

*@50% CBCP — Beam Angle*
*@10% CBCP — Field Angle*




| T8 / G13 | | 580mm 590mm | 1198mm | 1500mm |
|---|---|---|---|---|
| ○ Day White (5000K) | 1m | 233 lux | 440 lux | 474 lux |
| | 2m | 58 lux | 110 lux | 118 lux |
| ● Warm White (3000K) | 1m | 207 lux | 394 lux | 433 lux |
| | 2m | 51 lux | 98 lux | 108 lux |

* Typical Lux Variation is +/- 15%

## ◦ Ordering Code Guideline

EX: T841-850-L580H-VACU-U
F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| Model Type | CRI, CCT | Length, Cover Type | Voltage Type | Power Input |
| T841: T8 tube, Type- 41 | 850：CRI >80, Single CCT- 5000K<br>830：CRI >80, Single CCT- 3000K | L580: 580mm<br>L1198: 1198mm<br>L1500: 1500mm<br>H: Heavy Diffused Cover | VACU: 100~240V | U: Unilateral<br>B: Bilateral |

# LuxTube-T5 (w/external power)

LED T5 Tube Light for General Lighting Application

Indoor CE RoHS

**T5 3I (2ft) 100 lm/W**
9W, 905 lm

**T5 3I (4ft) 100 lm/W**
18W, 1810 lm

## ◦ Features

- Retrofit T5 fluorescent socket
- Energy efficient (100 lm/W)
- Reliable power
- Excellent optical design, non-glare
- Lower maintenance cost
- CE, RoHS compliant

## ◦ Applications

- General lighting, parking lot lighting, factory lighting, aquirium lighting, show case, cove light, etc...

## ◦ Specifications

### A T5 Tube

| Model | LED | LED # | Base | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CBCP** | CRI | Length / Diameter | Cover | Voltage |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T531H-L549W9-DW | TW LED | 90-Leds | G5 | 9W (driver included) | 5200~6300K | 905 / 855 lm | 135° | 240 | 70 | 549 / 15 mm | Heavy Diffused | 15~19V DC |
| T531H-L549W9-NW | | | | | 3700~4300K | 905 / 855 lm | | 240 | | | | |
| T531H-L549W9-WW | | | | | 2700~3300K | 860 / 810 lm | | 220 | | | | |
| **T531H-L1149W18-DW** | TW LED | 180-Leds | G5 | 18W (driver included) | 5200~6300K | 1810 / 1720 lm | 135° | 440 | 70 | 1149 / 15 mm | Heavy Diffused | 30~37V DC |
| T531H-L1149W18-NW | | | | | 3700~4300K | 1810 / 1720 lm | | 440 | | | | |
| T531H-L1149W18-WW | | | | | 2700~3300K | 1710 / 1620 lm | | 410 | | | | |

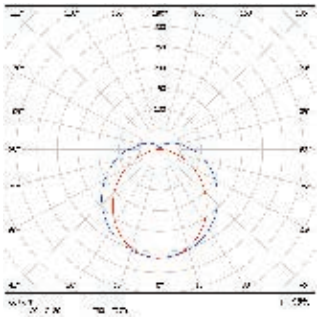
*** Lumens:** Cold at Tj=25°C , Hot at Tj=70°C ; variation is +/- 15% ; ****CBCP :** Center Beam Candle Power (cd), variation is +/- 15%
**Operating Temp.:** -20~45°C (non-condensation environment); **Life Time:** 40,000 hrs; **Warranty:** 2 years, limited
★**NOTE:** Not for use in totally enclosed fixture or in fixture without air flow.

### B Power

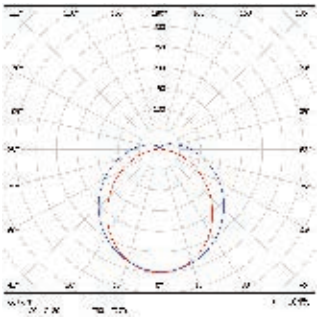
| Model | Watts | Input Volt | Current | PF |
|---|---|---|---|---|
| PS-CC01-W20C521-VACU | 20W x 1 channel | Input: 100~240V AC Output: 15~42V DC | 520mA/Channel | PF>0.9 |
| PS-CC01-W40C521-VACU-D | 20W x 2 channel | | | |
| PS-CC01-W60C521-VACU-T | 20W x 3 channel | Input: 100~240V AC Output: 28~42V DC | 520mA/Channel | PF>0.9 |

## ◦ Photometric

549mm

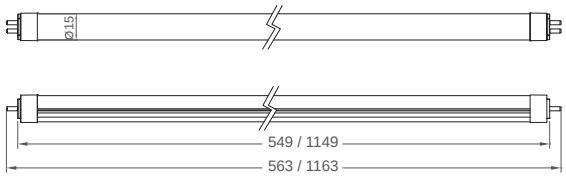


1149mm



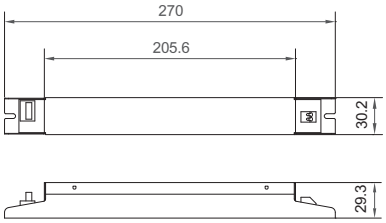
## ◦ Dimensions

### A T5 Tube



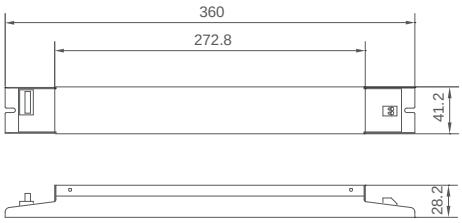

Unit : mm
N.W.: 90g (549mm)
185g (1149mm)

### B Power - (1~2 channel)




Unit : mm
Weight : 260g

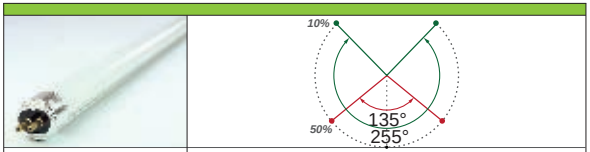
### C Power - (3 channel)




Unit : mm
Weight : 410g

## ◦ Illumination Chart

@50% CBCP — Beam Angle
@10% CBCP — Field Angle




| T5 | 549 mm | 1149 mm |
|---|---|---|
| Day White (5200~6300K) 1m | 240 lux | 440 lux |
| Nature White (3700~4300K) 1m | 240 lux | 440 lux |
| Warm White (2700~3300K) 1m | 220 lux | 410 lux |

## ◦ Ordering Code Guideline

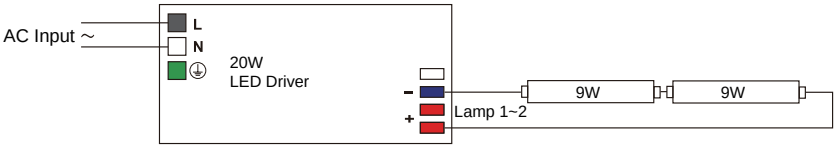
EX: T531H-L1149W18-DW
F1 F2 F3

| F1 | F2 | F3 |
|---|---|---|
| **Model Type** | **Length, Watts** | **LED Color** |
| T531: T5 tube, Type-31 (TW LED)<br>H: Heavy Diffused | L1149W18: 1149mm, Max. 18W<br>L549W9: 549mm, Max. 9W | DW: 5200~6300K<br>NW: 3700~4300K<br>WW: 2700~3300K |

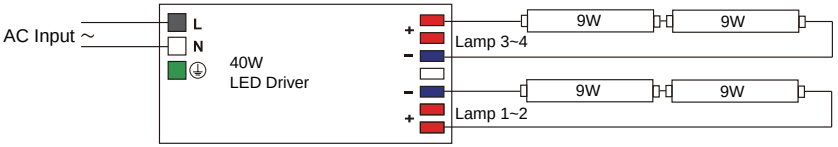
## ◦ Installation Guide

**A L531-2ft (549mm)**

(a) 1 Channel (9W*1~2pcs)

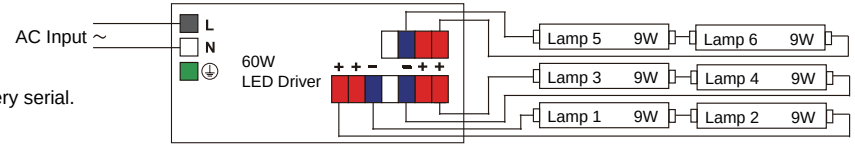



(b) 2 Channel (9W*1~4pcs)




(c) 3 Channel (9W* 2 / 4 / 6 pcs)

*T5 (549mm) with 3 channel power:
Please connect T5(549mm) 2pcs in every serial.



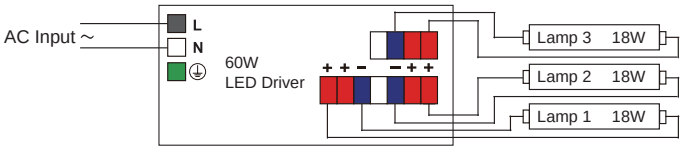

**CAUTION:**
**Connect LED lamp before power on.**

## B T531-4ft (1149mm)

(a) 1 Channel (18W*1pc)

(b) 2 Channel (18W*1~2pc)

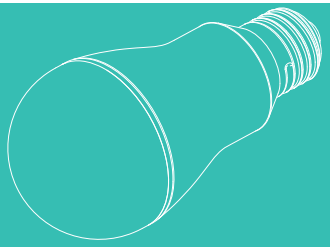
(c) 3 Channel (18W*1~3pc)




**CAUTION:**
**Connect LED lamp before power on.**

## ○ *Package Information*

| | Qty | Dimension | Weight |
|---|---|---|---|
| (549mm) **Carton** | 100 pcs | 605 x 445 x 150 mm | 11.5 Kgs |
| (1149mm) **Carton** | 60 pcs | 1197 x 284 x 194 mm | 13.8 Kgs |



# LuxBB - Bulbs B-4

LED lamp for replacing 60W incandescent Bulb

## *Content*

LuxBB Series

- A60 / A19 (10W)

# LuxBB - A60/A19

Indoor CE RoHS

LED lamp for replacing 60W incandescent A60/A19 lamp

A A604-R10 **CRI-85**
10Watt, 900 lm

B A604-F10
10Watt, 900 lm

OSRAM
LED TECHNOLOGY INCLUDED

## 60 Watt Incandescent Replacement

1 Light weight heat sink design

2 Reliable power inside

Standard E26/E27 Socket

### ◦ Features

- Replacing 60W incandescent A60 /A19 lamp
- Light weight heat sink design
- Available in DW, WW color
- Reliable power design
- >80% energy-saving
- Long life, lower re-lamping frequency
- No UV or IR irradiation
- CE, RoHS

### ◦ Applications

- Residential, Hotel, Restaurant, Retail lighting... etc.

## ◦ Specifications

### A A604-R10 (Osram)

| Model | LED | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50%CBCP) | CBCP** | CRI | Voltage | Base |
|---|---|---|---|---|---|---|---|---|---|
| A604-R10-850-VACUE26 90 | Osram5630*16 | 10W | 5000K | 900 / 770 lm | 135° | 215 | 85 | 100~240V AC | E26 |
| A604-R10-830-VACUE26 90 | | | 3000K | 840 / 720 lm | | 200 | | | |
| A604-R10-850-VACUE27 90 | | | 5000K | 900 / 770 lm | | 215 | 85 | | E27 |
| A604-R10-830-VACUE27 90 | | | 3000K | 840 / 720 lm | | 200 | | | |

Individual Box Package is available upon request

### B A604-F10 (TW LED)

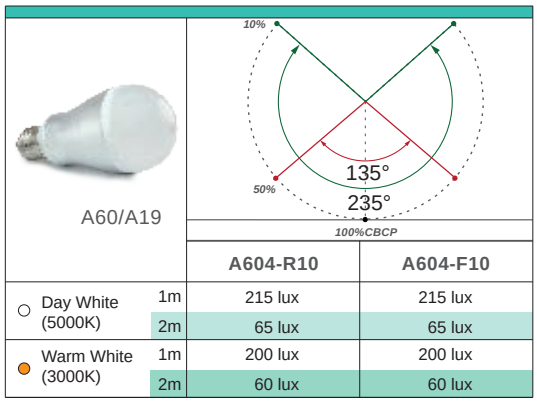
| Model | LED | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50%CBCP) | CBCP** | CRI | Voltage | Base |
|---|---|---|---|---|---|---|---|---|---|
| A604-F10-750-VACUE26 90 | TW LED *16 | 10W | 5000K | 900 / 810 lm | 135° | 215 | 75 | 100~240V AC | E26 |
| A604-F10-830-VACUE26 90 | | | 3000K | 840 / 760 lm | | 200 | 80 | | |
| A604-F10-750-VACUE27 90 | | | 5000K | 900 / 810 lm | | 215 | 75 | | E27 |
| A604-F10-830-VACUE27 90 | | | 3000K | 840 / 760 lm | | 200 | 80 | | |

Individual Box Package is available upon request

*** Lumens :** Cold at Tj=25°C, Hot at Tj=85°C ; variation is +/- 15% ; ****CBCP :** Center Beam Candle Power (cd) , variation is +/- 15%
**Operating Temp.:** -20~45°C(non-condensation environment); **Life Time :** 40,000 hrs; **Warranty :** 2 years, limited
★ **NOTE:** Not for use in totally enclosed fixture or in fixture without air flow

## ◦ Illumination Chart

@50% CBCP — Beam Angle
@10% CBCP — Field Angle



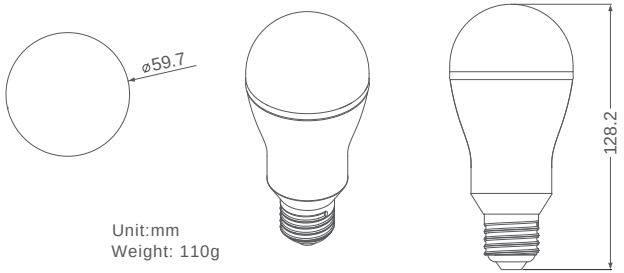



A60/A19

| | | A604-R10 | A604-F10 |
|---|---|---|---|
| ○ Day White (5000K) | 1m | 215 lux | 215 lux |
| | 2m | 65 lux | 65 lux |
| ● Warm White (3000K) | 1m | 200 lux | 200 lux |
| | 2m | 60 lux | 60 lux |

* Typical Lux Variation is +/- 15%

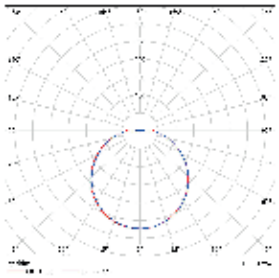
## ◦ Dimensions



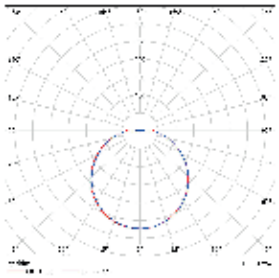

Unit:mm
Weight: 110g

## ◦ Photometric

R10



F10



## ◦ Ordering Code Guideline

EX: A604-R10-850-VACUE26 90-B01

F1 F2 F3 F4 F5

| F1 | F2 | F3 | F4 | F5 |
|---|---|---|---|---|
| **Model Type** | **LED,Watt** | **Color(CCT)** | **Voltage, Base** | **Package Type** |
| A604: A60 bulb, type-4 | R10: Osram LED, 10W<br>F10: TW LED, 10W | 850: CRI>80, CCT - 5000K<br>750: CRI>70, CCT - 5000K<br>830: CRI>80, CCT - 3000K | VACUE26 90: 100~240V AC / E26(White)<br>VACUE27 90: 100~240V AC / E27(White) | (Blank): Industrial<br>B01: Box type-01 |

## ◦ Package Information

A Industrial Package

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Carton** | 50 pcs | 358 x 358 x 290 mm | 6.5 Kgs |

B Box Package (B01 type)

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Box** | 1 pc | 71 x 71 x 137 mm | 110 g |
| **Carton** | 50 pcs | 382 x 382 x 301 mm | 6.5 Kgs |

# LuxMini - Festoon B-5

LED lamp for replacing traditional mini lamp

## *Content*

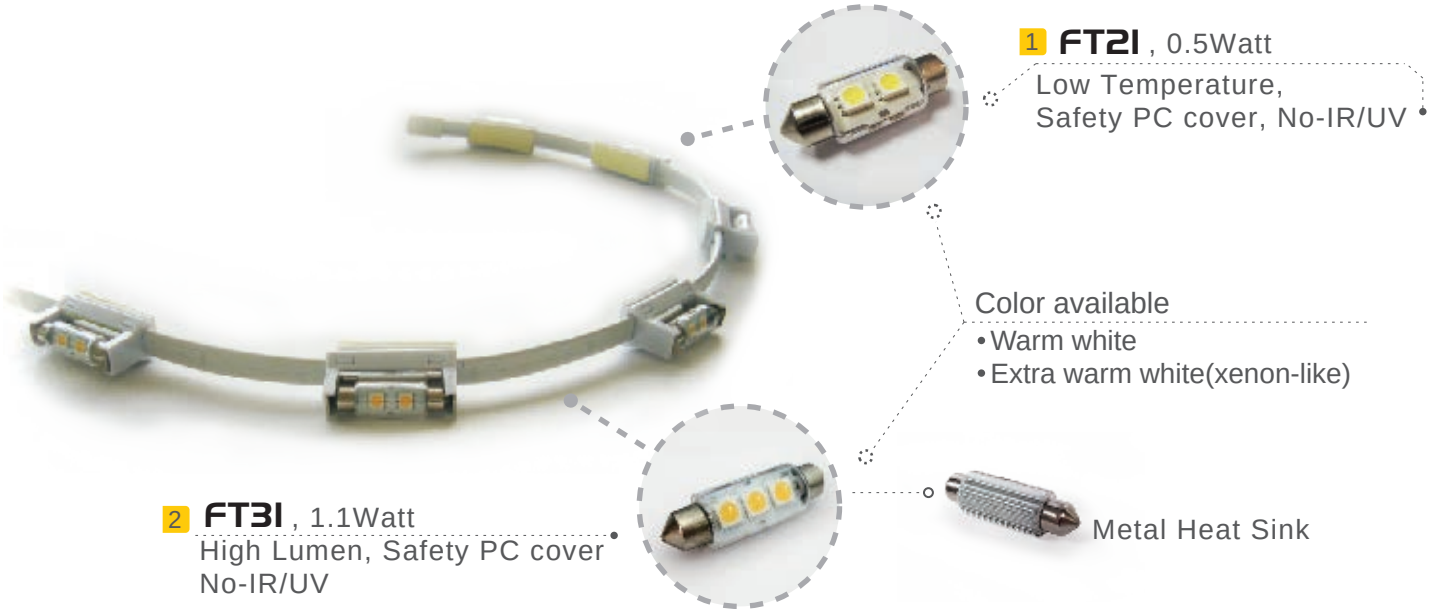
LuxMini Series

- Festoon

# LuxMini-Festoon

Indoor CE RoHS

LED Festoon Lamp for Replacing 5~10W Xenon Lamp




## ◦ Features

- Replacing 5~10W Xenon Festoon lamp
- >80% energy-saving and long life time
- 0.5W and 1W for different brightness selection
- Color: Warm white and Extra warm white (xenon-like) (Day White/Nature White is available upon request)
- No UV/IR and long life time
- CE, RoHS

## ◦ Applications

- Decoration, Cove Lighting, Undercabinet, Accent Lighting, Display & Showcase Lighting... ect

## ◦ Specifications

| Model | LED | LED# | Base | Watts | CCT | Lumens* (Cold/Hot) | Beam Angle (@50% CBCP) | CRI | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| FT21-WW-V12 | Epi-star chip | 2-Leds | SV8.5mm | DC-0.32W<br>AC-0.45W | 2800~3200K | 21 / 20 lm(DC)<br>21 / 19 lm(AC) | 120° | 80 | 12V AC/DC |
| FT21-XW-V12 | | | | DC-0.32W<br>AC-0.45W | 2300~2600K | 18 / 17 lm(DC)<br>18 / 16 lm(AC) | | | |
| FT31-WW-V12 | | 3-Leds | | DC-1.1W<br>AC-0.8W | 2800~3200K | 61 / 55 lm(DC)<br>44 / 41 lm(AC) | | | |
| FT31-XW-V12 | | | | DC-1.1W<br>AC-0.8W | 2300~2600K | 54 / 48 lm(DC)<br>40 / 37 lm(AC) | | | |
| FT21-WW-V24 | Epi-star chip | 2-Leds | SV8.5mm | DC-0.32W<br>AC-0.45W | 2800~3200K | 21 / 20 lm(DC)<br>21 / 19 lm(AC) | 120° | 80 | 24V AC/DC |
| FT21-XW-V24 | | | | DC-0.32W<br>AC-0.45W | 2300~2600K | 18 / 17 lm(DC)<br>18 / 16 lm(AC) | | | |
| FT31-WW-V24 | | 3-Leds | | DC-1.1W<br>AC-0.8W | 2800~3200K | 61 / 55 lm(DC)<br>44 / 41 lm(AC) | | | |
| FT31-XW-V24 | | | | DC-1.1W<br>AC-0.8W | 2300~2600K | 54 / 48 lm(DC)<br>40 / 37 lm(AC) | | | |

*** Lumens :** Cold at Tj=25°C , Hot at Tj=65°C ; variation is +/- 15%
**Operating Temp.:**-20~45°C; (non-condensation environment); **Life Time :** 25,000 hrs; **Warranty:** 2 years, limited
★ Day White (5000~6300K) and Nature White (3800~4500K) is available upon request
★ **NOTE:** Not for use in totally enclosed fixture or in fixture without air flow

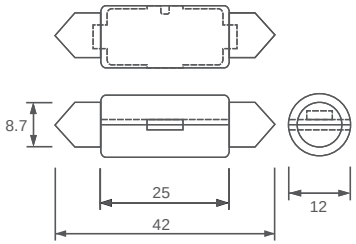
## ◦ Ordering Guide

EX: LMN-FT31-WW-V24
F1 F2 F3 F4

| F1 | F2 | F3 | F4 |
|---|---|---|---|
| **Series** | **Model Type** | **Color(CCT)** | **Voltage** |
| LMN: LuxMini Series | FT21: Festoon Type 21 | WW：2800~3200K<br>XW：2300~2600K | V12 : 12V AC / DC<br>V24 : 24V AC / DC |
| | FT31: Festoon Type 31 | WW：2800~3200K<br>XW：2300~2600K | |

## ◦ Dimensions

■ **Festoon type**




Unit: mm
Weight: 3.3 g

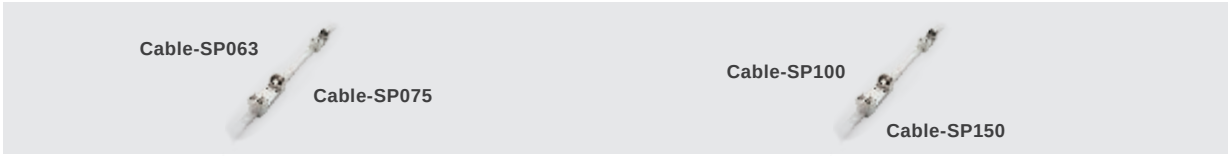
## ◦ Package Information

| | Qty | Dimension | Weight |
|---|---|---|---|
| **Middle Box** | 150 pcs | 296 x 231 x 67 mm | 0.8 / 1.1 Kgs (FT21 / FT31) |
| **Carton** | 1500 pcs | 478 x 357 x 320 mm | 8.6 / 11.6 Kgs (FT21 / FT31) |

# Festoon&Accessory

## ◦ Accessory

### 1 Roll Type I *Sockets Space is fixed




1 Cable-SP063

**Model No. :** FTCBL-SP063
**Description:**
Cable for installing Festoon and Festoon-to-MR Adaptor
**Sockets Spacing:** 6.3cm

2 Cable-SP075

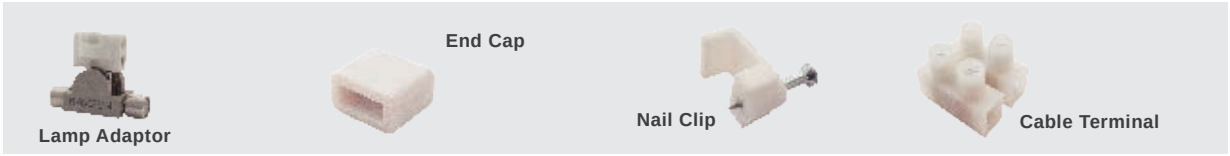
**Model No. :** FTCBL-SP075
**Description:**
Cable for installing Festoon and Festoon-to-MR Adaptor
**Sockets Spacing:** 7.5cm

3 Cable-SP100

**Model No. :** FTCBL-SP100
**Description:**
Cable for installing Festoon and Festoon-to-MR Adaptor
**Sockets Spacing:** 10cm

4 Cable-SP150

**Model No. :** FTCBL-SP150
**Description:**
Cable for installing Festoon and Festoon-to-MR Adaptor
**Sockets Spacing:** 15cm




5 Lamp Adaptor
( Festoon→MR )

**Model No. :** FT2MR-A2
**Description:**
Festoon socket to MR base Adaptor

6 End Cap

**Model No. :** FTCBL-Cap2
**Description:**
Cap for cable end insulation

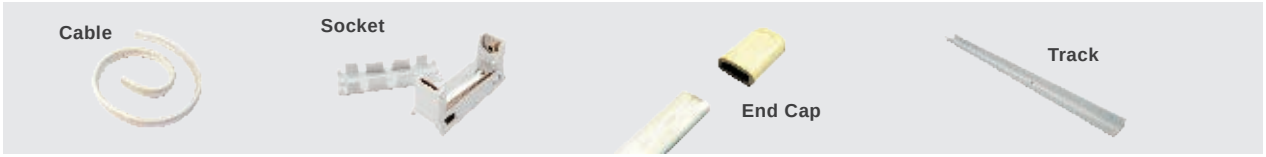
7 Nail Clip

**Model No. :** FTCBL-Clip2
**Description:**
Wood Nail Clip for fixing cable

8 Cable Terminal

**Model No. :** CBL-T2
**Description:**
Terminal for wires connection

### 2 Roll Type II *Sockets Space can adjust




1 Cable

**Model No. :** FTCBL
**Description:**
Cable for installing Festoon lamp holders (7A wire)

2 Socket (SV8.5 mm)

**Model No. :** FTCBL-LH01
**Description:**
Lamp holder (socket) for Festoon bulb
**Dimensions:**
46(L)×18(W)×23(H)mm

3 End Cap

**Model No. :** FTCBL-Cap1
**Description:**
Cap for cable end insulation

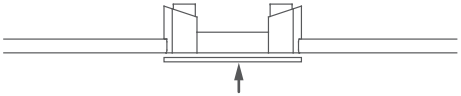
4 Track

**Model No. :** FTCBL-TK1
**Description:**
Track for fixing Festoon Cable

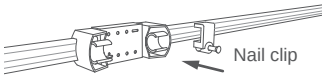
## ◦ Installation Guide

### 1 Roll Type I

1 Fix the cable with adhesive tape or wood nail clip



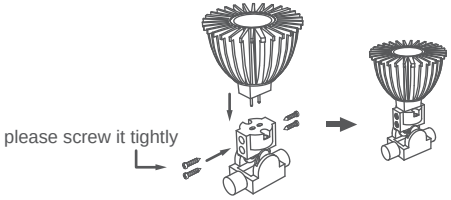

or



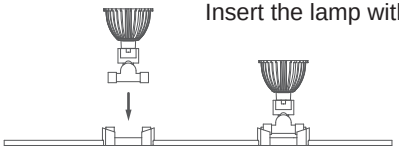

2 Insert the Festoon lamp

or

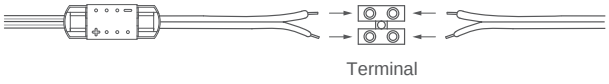
2 Plug-in the MR11/ MR16 into lamp adaptor



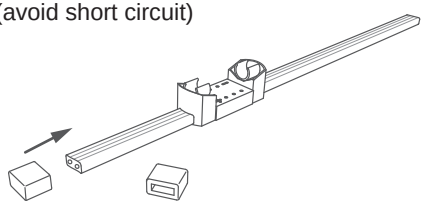

Insert the lamp with lamp adaptor



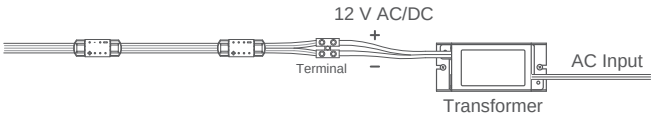
3 Use terminal to extend two cables when needed (optional)



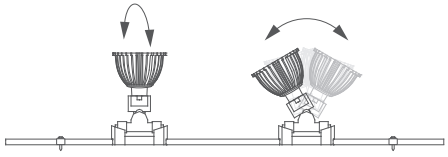

4 Install End Cap
(avoid short circuit)



5 Connect the power

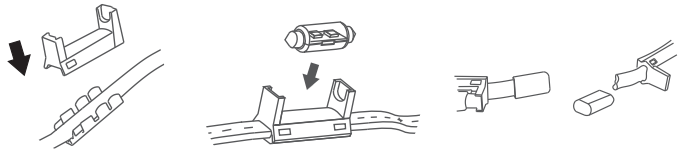



6 Adjust Angle

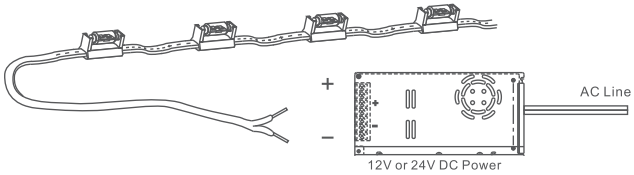


## 2 Roll Type II

### 1 Cable,socket and end-cap installation



### 2 Professional Technician




## ◦ Application Note

### 1 FT21

**▪ FT21 12V (DC: 0.32W, AC: 0.45W) system per cable chain**

| Cable length (m) | Total lamps (pcs) | Recommended power (W) | Festoon power (W) |
|---|---|---|---|
| 2 m | 20pcs | 11W | 9W |
| 2 m | 26pcs | 15W | 12W |
| 2 m | 32pcs | 18W | 14W |
| 4 m | 40pcs | 23W | 18W |
| 4 m | 52pcs | 29W | 23W |
| 4 m | 64pcs | 36W | 29W |
| 8 m | 80pcs | 45W | 36W |
| 8 m | 104pcs | 59W | 47W |
| 8 m | 128pcs | 72W | 58W |
| 12 m | 120pcs | 68W | 54W |
| 12 m | 156pcs | 88W | 70W |
| 12 m | 192pcs | 108W | 86W |
| >12 m | NO Recommended | | |

**▪ FT21 24V (DC: 0.32W, AC: 0.45W) system per cable chain**

| Cable length (m) | Total lamps (pcs) | Recommended power (W) | Festoon power (W) |
|---|---|---|---|
| 2 m | 20 pcs | 11W | 9W |
| 2 m | 26 pcs | 15W | 12W |
| 2 m | 32 pcs | 18W | 14W |
| 4 m | 40 pcs | 23W | 18W |
| 4 m | 52 pcs | 29W | 23W |
| 4 m | 64 pcs | 36W | 29W |
| 8 m | 80 pcs | 45W | 36W |
| 8 m | 104 pcs | 59W | 47W |
| 8 m | 128 pcs | 72W | 58W |
| 16 m | 160 pcs | 90W | 72W |
| 16 m | 208 pcs | 117W | 94W |
| 16 m | 256 pcs | 144W | 115W |
| 24 m | 240 pcs | 135W | 108W |
| 24 m | 312 pcs | 176W | 140W |
| 24 m | 384 pcs | 216W | 173W |
| >24 m | NO Recommended | | |

### 2 FT31

**▪ FT31 12V (DC: 1.1W, AC: 0.8W) system per cable chain**

| Cable length (m) | Total lamps (pcs) | Recommended power (W) | Festoon power (W) |
|---|---|---|---|
| 2 m | 20pcs | 28W | 22W |
| 2 m | 26pcs | 36W | 29W |
| 2 m | 32pcs | 44W | 35W |
| 4 m | 40pcs | 55W | 44W |
| 4 m | 52pcs | 72W | 57W |
| 4 m | 64pcs | 88W | 70W |
| 6 m | 60pcs | 83W | 66W |
| 6 m | 78pcs | 107W | 86W |
| >6 m | NO Recommended | | |

**▪ FT31 24V (DC: 1.1W, AC: 0.8W) system per cable chain**

| Cable length (m) | Total lamps (pcs) | Recommended power (W) | Festoon power (W) |
|---|---|---|---|
| 2 m | 20 pcs | 28W | 22W |
| 2 m | 26 pcs | 36W | 29W |
| 2 m | 32 pcs | 44W | 35W |
| 4 m | 40 pcs | 55W | 44W |
| 4 m | 52 pcs | 72W | 57W |
| 4 m | 64 pcs | 88W | 70W |
| 8 m | 80 pcs | 110W | 88W |
| 8 m | 104 pcs | 143W | 114W |
| 8 m | 128 pcs | 176W | 141W |
| 12 m | 120 pcs | 165W | 132W |
| 12 m | 156 pcs | 215W | 172W |
| >12 m | NO Recommended | | |

# C. Power

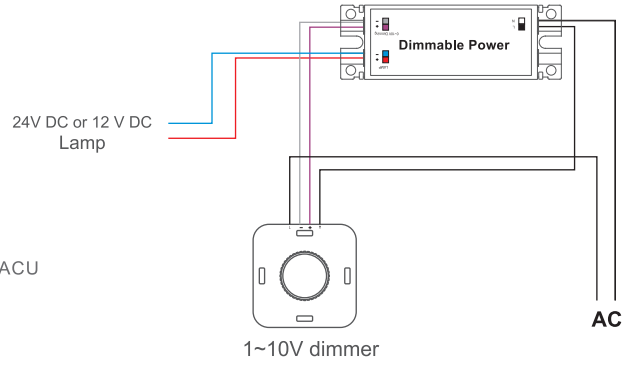
# Dimmable Power

120~277V AC dimmable power and controllable with 0~10V / 1~10V dimmer

## ▪ Dimmable Power

## ▪ 1~10V Dimmer

**Model No. :** DIM-W050LA0-VACU
**Input(V):** 100~240V AC
**Max. Input Current:** 2A
**Description:** 1~10V dimmer




1 **Model No. :** PSD-V24-W60-10V
**Output(W):** 60 Watt
**Input(V):** 120~277V AC
**Output(A/I Max):** 24V/ 2.5A
**Description:**
use with standard 1~10V dimmer

2 **Model No. :** PSD-V24-W100-10V
**Output(W):** 100 Watt
**Input(V):** 120~277V AC
**Output(A/I Max):** 24V/ 4.25A
**Description:**
use with standard 1~10V dimmer

3 **Model No. :** PSD-V12-W50-10V
**Output(W):** 50 Watt
**Input(V):** 120~277V AC
**Output(A/I Max):** 12V/ 2.1A
**Description:**
use with standard 1~10V dimmer

LuxBar

LuxBar-24V DC

LuxBeacon

LBCX3-24V DC
LBCX3-12V DC

LuxMini

Festoon-24V DC
Festoon-12V DC

LuxTube

T531-24V DC